

SERIES
6**Contact SAMSUNG WORLDWIDE**

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk

LCD TV

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register
your product at

www.samsung.com/register

Model _____ Serial No. _____



BN68-01900M-01



Information on Use

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Do not display a still image and partially still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as screen burn. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
-  Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen.
Playing a DVD or a game console may cause a similar effect to the screen.
Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

■ **WARNINGS:**

Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Set-top Box.

To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

■ **IMPORTANT:**

Image retention issues are not covered by your Samsung® warranty.

Digital TV Notice

- Functionalities related to Digital TV(DVB) are only available in countries/areas where DVB-T (MPEG2 and MPEG4 AVC) digital terrestrial signals are broadcasted or where you are able to access to a compatible DVB-C(MPEG2 and MPEG4 AAC) cable-TV service. Please check with your local dealer the possibility to receive DVB-T or DVB-C signal.
- DVB-T is the DVB European consortium standard for the broadcast transmission of digital terrestrial television and DVBC is that for the broadcast transmission of digital TV over cable. However, some differentiated features like EPG (Electric Programme Guide), VOD (Video on Demand) and so on, are not included in this specification. So, they cannot be workable at this moment.
- Although this TV set meets the latest DVB-T and DVB-C standards, as of [August, 2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
- Depending on the countries/areas where this TV set is used some cable-TV providers may charge an additional fee for such a service and you may be required to agree to terms and conditions of their business.
- Some Digital TV functions might be unavailable in some countries or regions and DVB-C might not work correctly with some cable service providers.
- For more information, please contact your local Samsung customer care centre.

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DivX® Certified to play DivX® video, including premium content.

Symbol



Note



One-Touch Button



TOOL Button



Press

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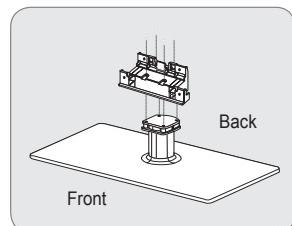
Getting Started

Installing the Stand

Preset: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws. Applicable to 32inch models only.

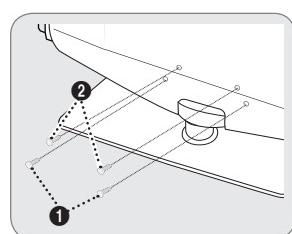
1 Attach your LCD TV to the stand.

- Two or more people should carry the TV.
- Make sure to distinguish between the front and back of the stand when assembling them.
- To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left or right sides of the TV.



2 Fasten screws at position ① and then fasten screws at position ②.

- Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.
- The stand is installed for models with the screen size of 37 inch and above.



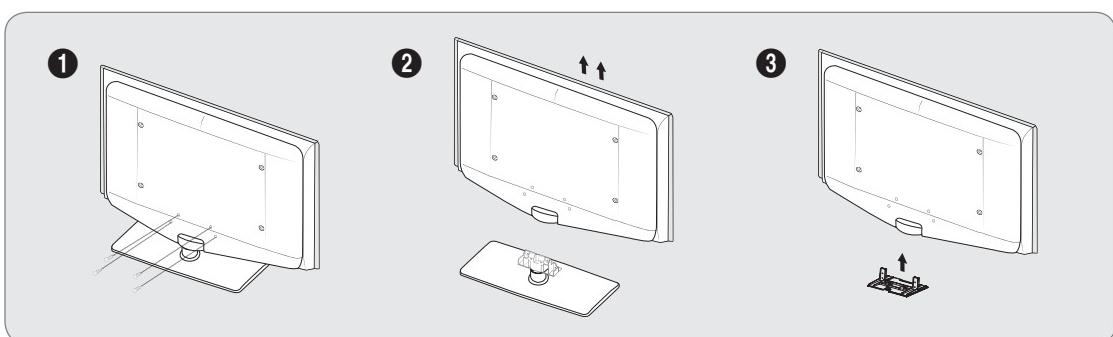
Disconnecting the Stand

1 Remove four screws from the back of the TV.

2 Separate the stand from the TV.

- Two or more people should carry the TV.

3 Cover the bottom hole with the cover.



Installing the Wall Mount Kit

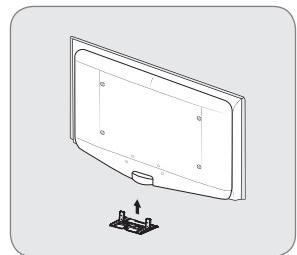
Wall mount items (sold separately) allow you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

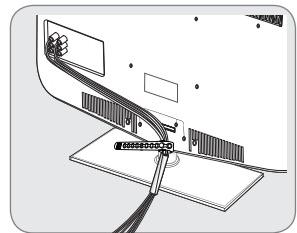


- Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.
- Remove the stand and cover the bottom hole with a cap and fasten with two screws.



Assembling the Cables

Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



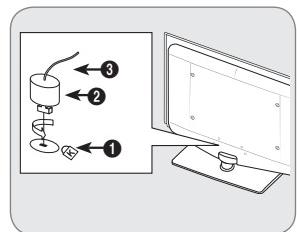
Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for proper use.

- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.

- 1** Insert the locking device into the Kensington slot on the LCD TV (**①**) and turn it in the locking direction (**②**).
- 2** Connect the Kensington Lock cable (**③**).
- 3** Fix the Kensington Lock to a desk or a heavy stationary object.



Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

Install the product so the required distances shown in the figure are kept.

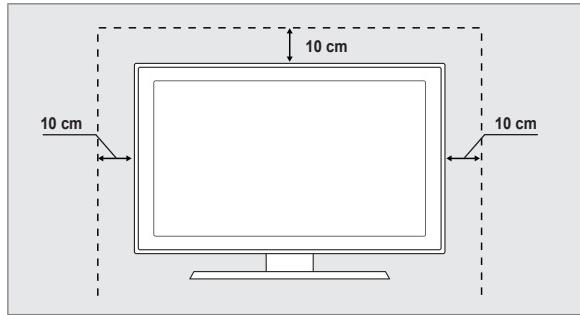
- When using a stand or wall-mount, use parts provided by Samsung Electronics only.

If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

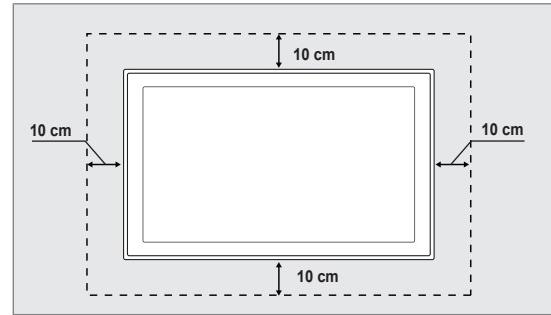
If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.

- The appearance may differ depending on the product.

When installing the product with a stand



When installing the product with a wall-mount



Securing the TV to the Wall

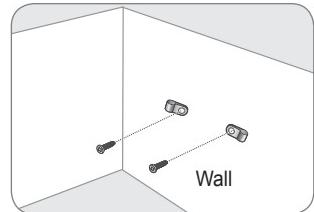


Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall.
 In particular, ensure your children do not hang over or destabilize the TV;
 doing so may cause the TV to tip over, causing serious injuries or death.
 Follow all safety precautions provided on the included Safety Flyer. For
 added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling:

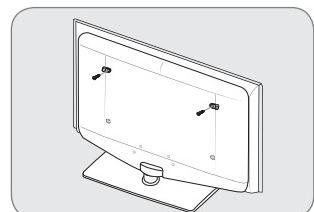
1 Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.

- You may need additional material such as an anchor depending on the type of wall.
- Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.



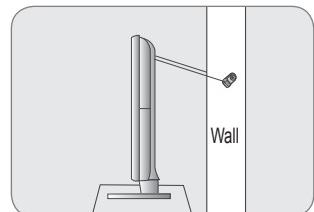
2 Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.

- Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
- Screw Specifications:
 - For a 32 ~ 40 Inch LCD TV: M6 X L15



3 Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.

- Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
- Untie the string before moving the TV.



4 Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Accessories

Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.



Remote Control & Batteries
(AAA x 2)

Power Cord

Cover-Bottom

Cleaning Cloth



User Manual

Stand Screw X 4
(Depending on the model)

Programme CD

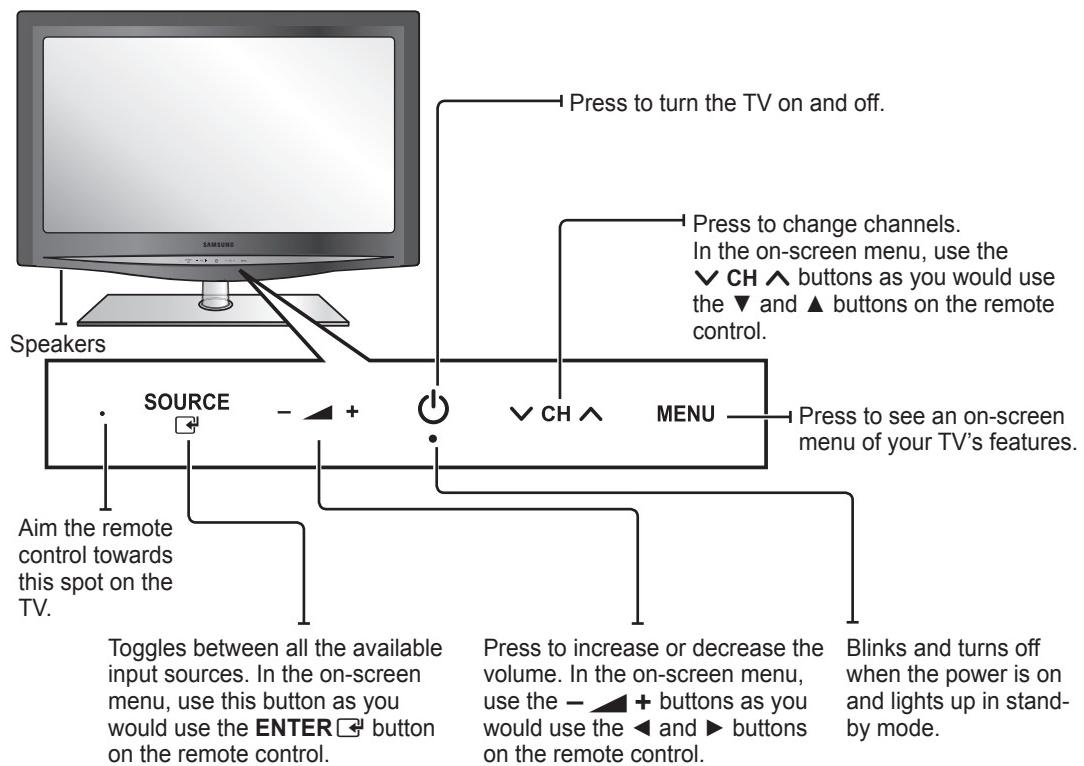
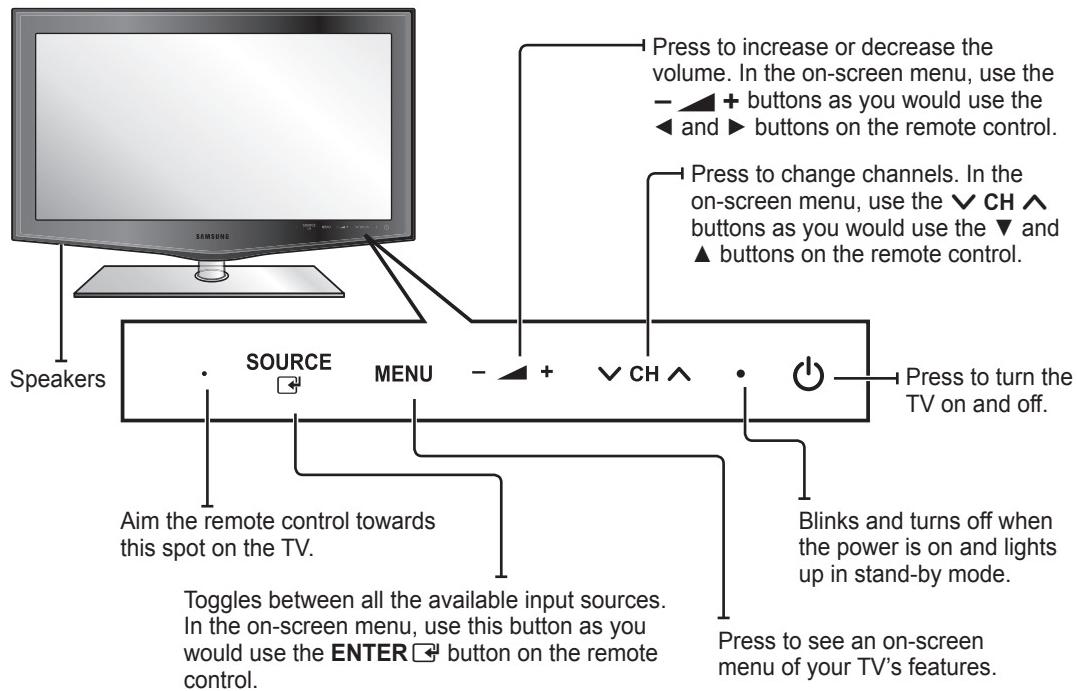
Holder-Wire Cable
(Depending on the model)



- The items colour and shape may vary depending on the model.
- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice in order to enhance product performance.

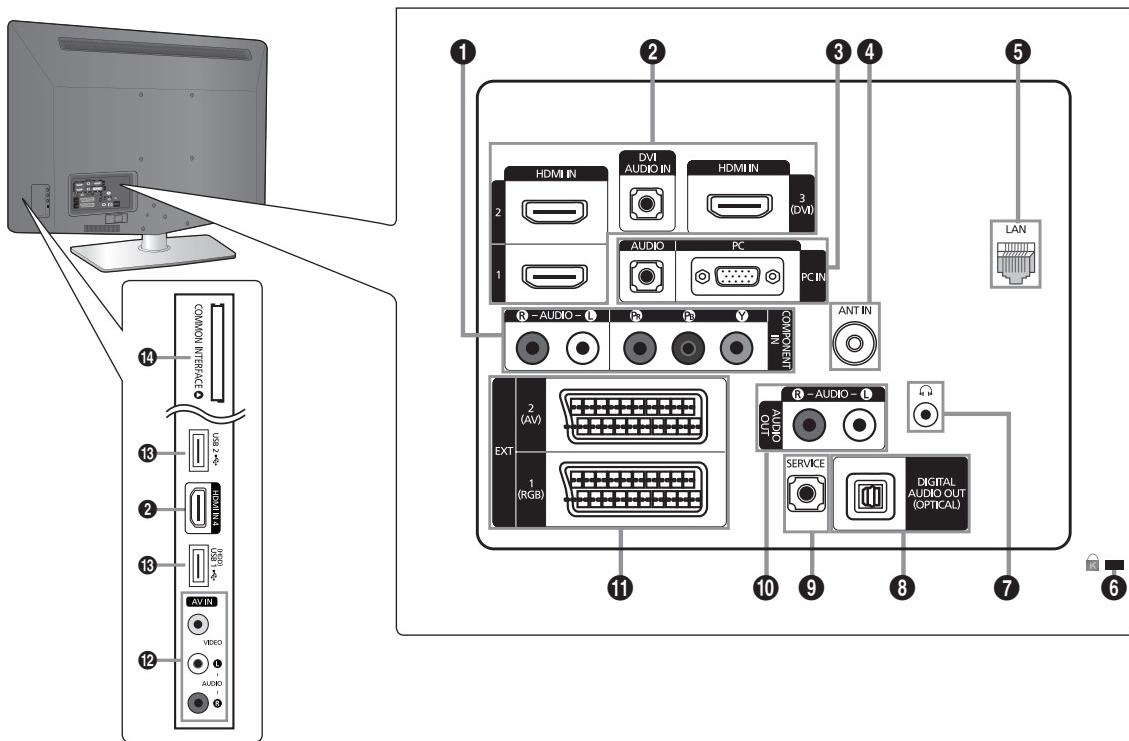
Viewing the Control Panel

- The product colour and shape may vary depending on the model.
- The front panel buttons can be activated by touching it with your finger.



Viewing the Connection Panel

The product colour and shape may vary depending on the model.



① COMPONENT IN

Connects Component video / audio.

② HDMI IN 1, 2, 3(DVI), 4 / DVI AUDIO IN

Connects to the HDMI jack of a device with an HDMI output.

- No sound connection is needed for an HDMI to HDMI connection.

What is HDMI?

- HDMI(High-Definition Multimedia Interface), is an interface that enables the transmission of digital audio and video signals using a single cable.
- The difference between HDMI and DVI is that the HDMI device is smaller than DVI's one.
- The TV may not output sound and pictures may be displayed with abnormal colour when DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the **HDMI IN 3(DVI)** jack and the audio cables to the **DVI AUDIO IN** jacks on the back of the TV. If this happens, contact the company that provided the DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) to confirm the HDMI version, then request an upgrade.
- Use the **HDMI IN 3(DVI)** jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the **DVI AUDIO IN** jacks for audio. When using an HDMI / DVI cable connection, you must use the **HDMI IN 3(DVI)** jack.
- HDMI cables that are not 1.3 may cause annoying flicker or no screen display.

③ PC IN [PC] / [AUDIO]

Connects to the video and audio output jacks on your PC.

- If your PC supports an HDMI connection, you can connect this to the **HDMI IN 1, 2, 3(DVI)** or **4** terminal.
- If your PC supports a DVI connection, you can connect this to the **HDMI IN 3(DVI) / DVI AUDIO IN** terminal.

④ ANT IN

Connects to an antenna or cable TV system.

⑤ LAN

Connect a LAN cable to this port to connect to the Network.

⑥ KENSINGTON LOCK (depending on the model)

The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

- The location of the Kensington Lock may be different depending on its model.

⑦ (HEADPHONE)

Headphone may be connected to the headphone output on your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

- Using the sound function is restricted when connecting headphones to the TV.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.

⑧ DIGITAL AUDIO OUT (OPTICAL)

Connects to a Digital Audio component such as a Home theatre receiver.

- When a Digital Audio System is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack: Decrease the volume of the TV and adjust the volume level with the system's volume control.
- 5.1CH audio is possible when the TV is connected to an external device supporting 5.1CH.
- When the receiver (home theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theatre receiver. When the source is a digital component such as a DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theatre receiver. If you want to hear 5.1 channel audio, connect the digital audio out jack on DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) directly to an Amplifier or Home Theatre, not the TV.

⑨ SERVICE

Connector for service only.

⑩ AUDIO OUT [R-AUDIO-L]

Connects to the audio input jacks on your Amplifier/Home theatre.

When an audio amplifier is connected to the **AUDIO OUT [R-AUDIO-L]** jacks: Decrease the volume of the TV and adjust the volume level with the Amplifier's volume control.

⑪ EXT1, 2

Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

- In EXT Mode, DTV Out supports MPEG SD Video and Audio only.

- Input/Output Specification

Connector	Input			Output
	Video	Audio (L / R)	RGB	
EXT 1	O	O	O	Only TV or DTV output is available.
EXT 2	O	O	X	Output you can choose.

⑫ AV IN [VIDEO] / [R-AUDIO-L]

Video and audio inputs for external devices, such as a camcorder or VCR.

⑬ USB1(HDD) / USB2

Connector for software upgrades and Media Play, etc.

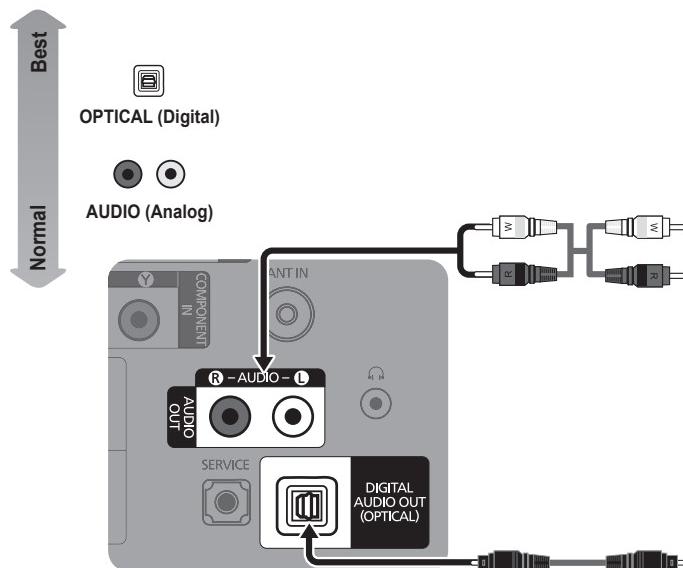
You can connect to Samsung's network wirelessly using the 'Samsung Wireless LAN Adapter' (Sold separately).

- For USB HDD, use the USB1 (HDD) port.

⑭ COMMON INTERFACE Slot

- Insert CI (Common Interface) card into the slot.
- When not inserting 'CI CARD' in some channels, 'Scrambled Signal' is displayed on the screen.
- The pairing information containing a telephone number, CI CARD ID, Host ID and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the channel information configuration has finished, the message 'Updating Completed' is displayed, indicating that the channel list is now updated.
 - You must obtain a CI CARD from a local cable service provider. Remove the CI CARD by carefully pulling it out with your hands since dropping the CI CARD may cause damage to it.
 - Insert the CI-Card in the direction marked on it.
 - The place of the **COMMON INTERFACE** Slot may be different depending on its model.
 - CAM is not supported in some countries and regions, check with your authorized dealer.
 - The CI+ function is only applicable to LE*****P.
- If you have some problems, please contact to service provider.

Connections



Analog Audio connection

Using a Audio Cable

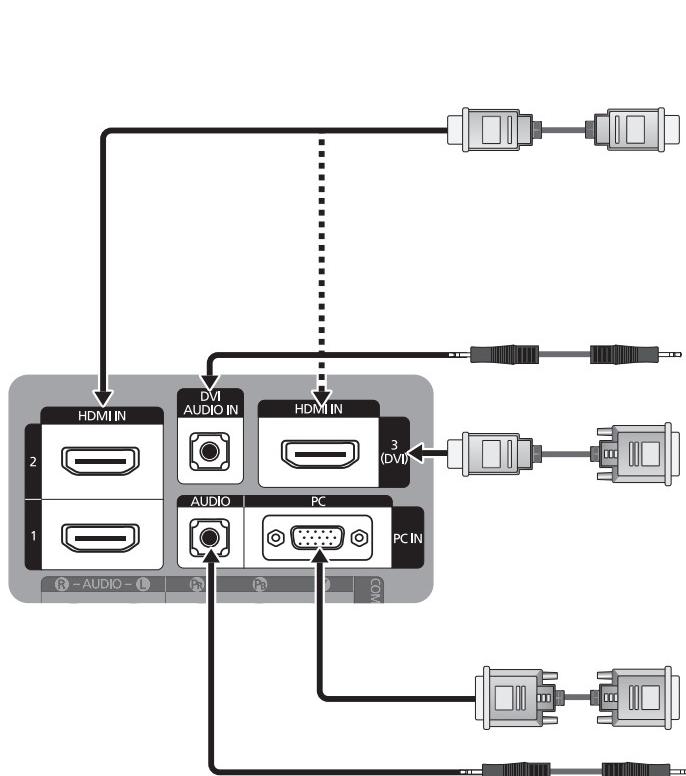
Amplifier / DVD Home Theater



Digital Audio connection

Using an Optical Cable

Digital Audio System



HD connection

Using an HDMI Cable

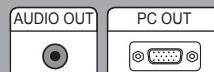


HD connection

Using an HDMI/DVI Cable

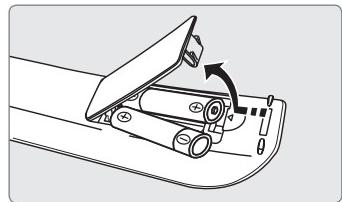


Using a D-Sub Cable



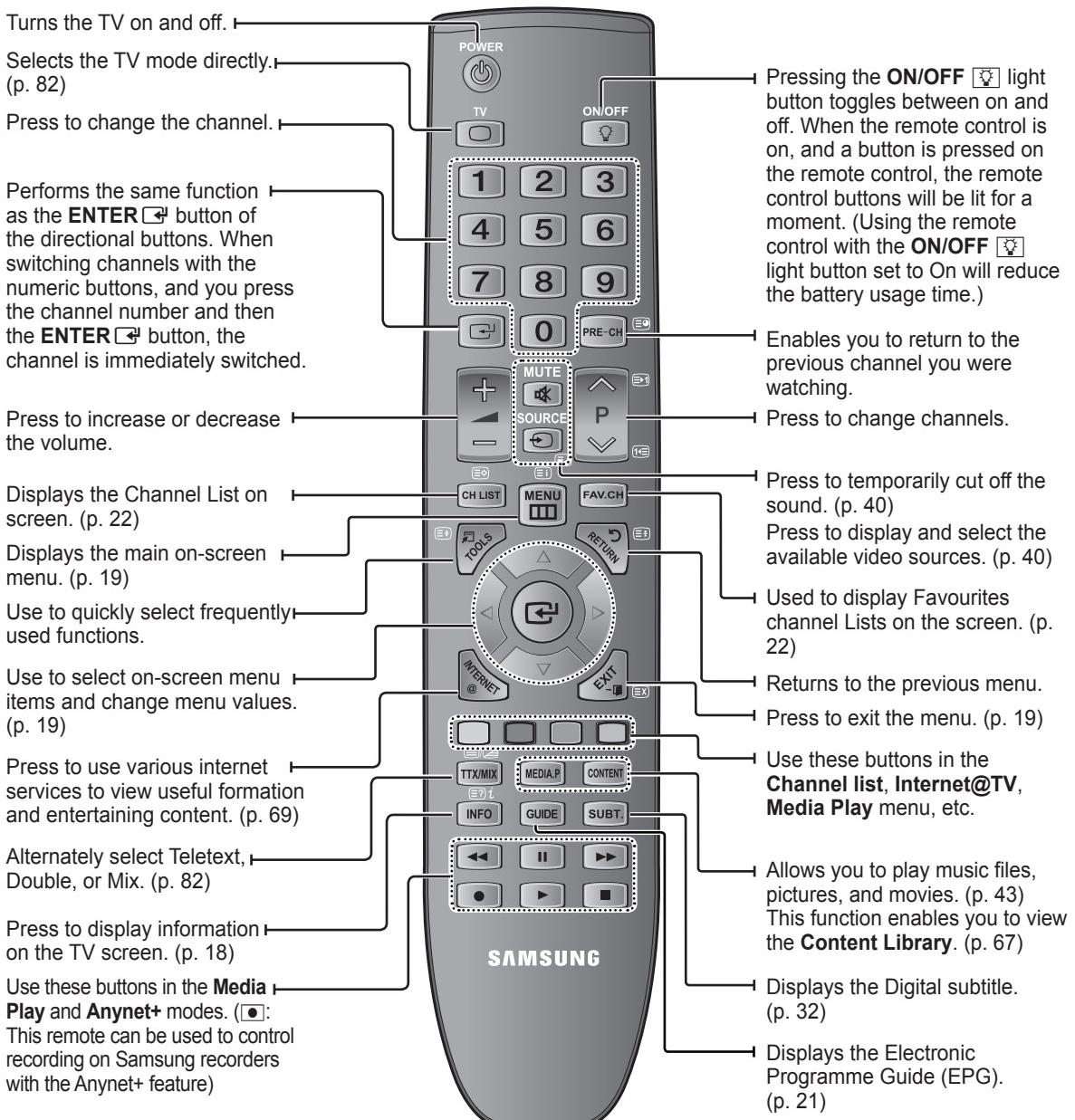
Installing Batteries in the Remote Control

- 1** Lift the cover at the back of the remote control upward as shown in the figure.
- 2** Install two AAA size batteries.
 - Make sure to match the '+' and '-' ends of the batteries with the diagram inside the compartment.
- 3** Replace the cover.
 - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. (Assuming typical TV usage, the batteries should last for about one year.)
 - If the remote control doesn't work, check the following:
 - Is the TV power on?
 - Are the plus and minus ends of the batteries reversed?
 - Are the batteries drained?
 - Is there a power outage or is the power cord unplugged?
 - Is there a special fluorescent light or neon sign nearby?



Viewing the Remote Control

- You can use the remote control up to a distance of about 23 feet from the TV.
- The performance of the remote control may be affected by bright light.
- The product colour and shape may vary depending on the model.



Teletext Functions (p. 82)

	Teletext mode selection (LIST / FLOF)		Teletext reveal		Teletext previous page
	Teletext store		Exit from the Teletext display		Teletext index
	Teletext size selection		Teletext sub page		Teletext hold
Colour buttons	Fastext topic selection		Teletext next page		Teletext cancel

Basic Operation

Placing Your Television in Standby Mode

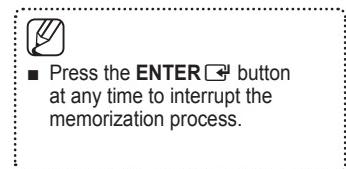
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** button on the remote control.
 - The screen is turned off and a red standby indicator appears on your set.
- 2 To switch your set back on, simply press the **POWER** button again.
 - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.

- 1 Press the **POWER** button.
 - You can also use the **POWER** button on the TV.
 - The message **Select the OSD Language.** is displayed.
- 2 Press the **ENTER** button. Select the appropriate language by pressing the **▲** or **▼** button. Press the **ENTER** button to confirm your choice.
- 3 Press the **◀** or **▶** button to select **Store Demo** or **Home Use**, then the **ENTER** button.
 - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
 - **Store Demo** mode is only intended for use in retail environments.
 - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use (Standard)**: Press the volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
- 4 Press the **ENTER** button. Select the appropriate country by pressing the **▲** or **▼** button. Press the **ENTER** button to confirm your choice.
- 5 Press the **▲** or **▼** button to select **Air** or **Cable**, then press the **ENTER** button.
 - **Air**: Air antenna signal.
 - **Cable**: Cable antenna signal.
- 6 Press the **▲** or **▼** button to select the channel source to memorize.
- 7 Press the **ENTER** button to select **Start**.
 - When setting the antenna source to **Cable**, a step appears allowing you to set a value for the digital channel search. For more information, refer to pages 19~20.
 - **Digital & Analogue**: Digital and Analogue channels.
 - **Digital**: Digital channels.
 - **Analogue**: Analogue channels.
 - The channel search will start and end automatically.
 - After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
- 8 Press the **ENTER** button. Press the **▲** or **▼** button to select **Auto**, then press the **ENTER** button.
 - If you select **Manual**, **Set current date and time** is displayed.
 - If you have received a digital signal, the time will be set automatically. If not, select **Manual** to set the clock.
- 9 The description for the connection method providing the best HD screen quality is displayed. Check the description and press the **ENTER** button.
- 10 Press the **◀** or **▶** button to select **See Product Guide** or **Watch TV**. Press the **ENTER** button.
 - **See Product Guide**: You are moved to the **Product Guide** where you can view the introduction to the main functions of your new HDTV.
 - **Watch TV**: You can watch the set broadcasting channel.



If you want to reset this feature...

- 1 Press the **MENU** button.
 - 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
 - 3 Press the **ENTER** button again to select **Plug & Play**.
- 3 Enter your 4 digit PIN number.
■ The default PIN number of a new TV set is '0-0-0-0'.
■ If you want to change PIN number, use the Change PIN function.

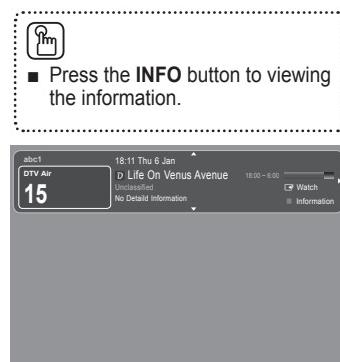


- The Plug & Play feature is only available in the TV mode.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

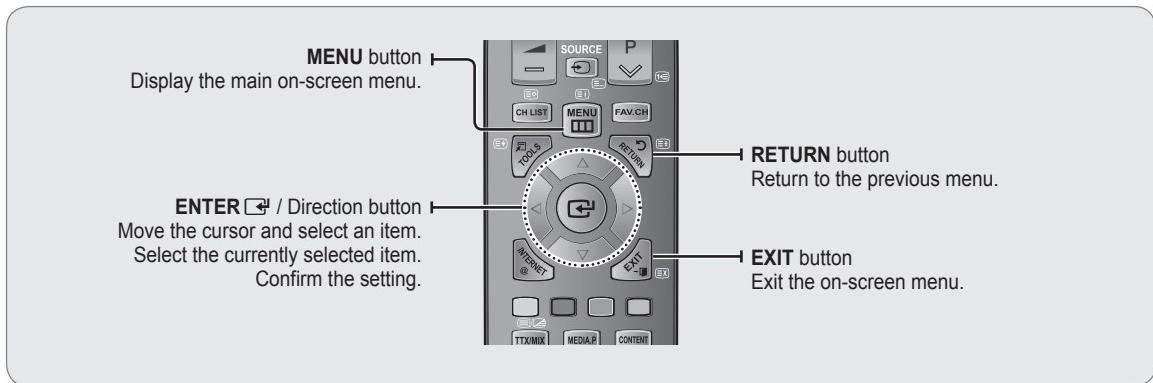
- 1 Press the **INFO** button on the remote control.
The TV will display the channel, the type of sound, and the status of certain picture and sound settings.
■ Press the **INFO** button once more or wait approximately 10 seconds and the display disappears automatically.



Using the Menus

Viewing the Menus

Menu provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses.



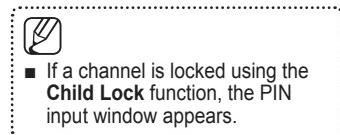
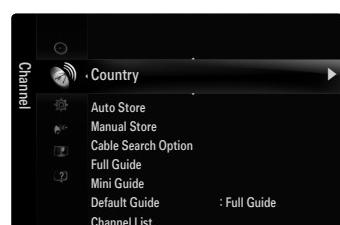
Operation the Menu

The access step may differ depending on the selected menu.

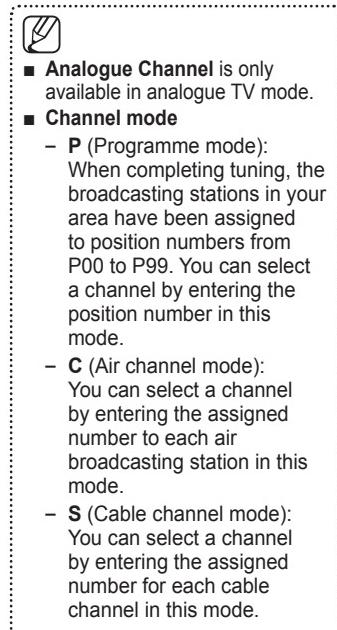
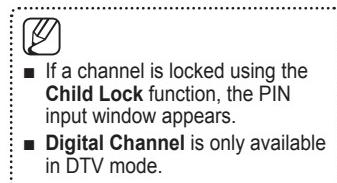
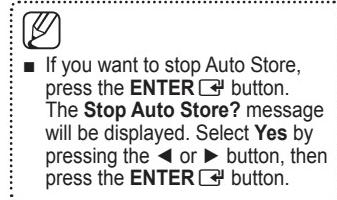
- 1 Press the **MENU** button.
 - The menu is displayed on the screen.
- 2 Press the **▲** or **▼** button to select one of the icons.
Press the **ENTER** button to access the icon's sub-menu.
- 3 Press the **▲** or **▼** button to move to items in the menu.
Press the **ENTER** button to enter items in the menu.
- 4 Press the **▲/▼/◀/▶** button to change the selected items.
Press the **RETURN** button to return to the previous menu.
- 5 Press the **EXIT** button to exit from the menu.

Channel Menu

Channel	
Option	Description
Country	<p><input type="checkbox"/> Analogue Channel You can change the country for analogue channels.</p> <p><input type="checkbox"/> Digital Channel You can change the country for digital channels. The PIN number input screen appears. Enter your 4 digit PIN number.</p>
Auto Store	<p>You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.</p> <p>Scans for all channels with active broadcast stations and stores them in the TV's memory.</p>



Channel	
Option	Description
Auto Store	<p><input type="checkbox"/> Air / Cable Antenna source to memorize</p> <ul style="list-style-type: none"> ■ Digital & Analogue: Digital and Analogue channels. ■ Digital: Digital channels. ■ Analogue: Analogue channels. <p>When selecting Cable → Digital & Analogue or Cable → Digital:</p> <p>Provide a value to scan for cable channels.</p> <ul style="list-style-type: none"> ■ Search Mode → Full / Network /Quick <ul style="list-style-type: none"> ■ Quick - Network ID: Displays the network identification code. - Frequency: Displays the frequency for the channel. (Differs in each country) - Modulation: Displays available modulation values. - Symbol Rate: Displays available symbol rates.
Manual Store	<p>Scans for a channel manually and stores it in the TV's memory.</p> <p><input type="checkbox"/> Digital Channel Manual store for digital channels.</p> <ul style="list-style-type: none"> ■ Channel: Set the Channel number using the ▲, ▼ or number (0~9) buttons. ■ Frequency: Set the frequency using the number buttons. ■ Bandwidth: Set the bandwidth using the ▲, ▼ or number (0~9) buttons. <p>When it has finished, channels are updated in the channel list.</p> <p><input type="checkbox"/> Analogue Channel Manual store for analogue channel.</p> <ul style="list-style-type: none"> ■ Programme (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons. ■ Colour System → Auto / PAL / SECAM / NTSC4.43: Sets the colour system value using the ▲ or ▼ button. ■ Sound System → BG / DK / I / L: Sets the sound system value using the ▲ or ▼ button. ■ Channel (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select C (Air channel) or S (Cable channel). Press the ► button, then press the ▲, ▼ or number (0~9) buttons to select the required number. <ul style="list-style-type: none"> - You can also select the channel number directly by pressing the number (0~9) buttons. - If there is abnormal sound or no sound, reselect the sound standard required. ■ Search (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen. ■ Store (When you store the channel and associated programme number): Set to OK by pressing the ENTER button.
Cable Search Option (depending on the country)	<p>Sets additional search options such as the frequency and symbol rate for cable network searches.</p> <ul style="list-style-type: none"> ■ Freq.Start (Frequency Start): Set the start frequency (Differs in each country) ■ Freq.Stop (Frequency Stop): Set the stop frequency (Differs in each country) ■ Modulation: Displays available modulation values. ■ Symbol Rate: Displays available symbol rates.

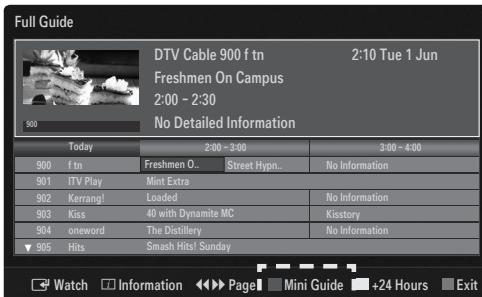


Option	Description
Full Guide / Mini Guide / Default Guide	<p>The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.</p> <p><input type="checkbox"/> Full Guide Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.</p> <p><input type="checkbox"/> Mini Guide The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order.</p> <p><input type="checkbox"/> Default Guide → Mini Guide / Full Guide You can decide whether to display either the Mini Guide or the Full Guide when the GUIDE button on the remote control is pressed.</p>



You can also display the guide menu simply by pressing the **GUIDE** button. (To configure the **Default Guide**, refer to the descriptions.)

Full Guide



Mini Guide



Using the Full / Mini Guide

To...	Then...
Watch a programme in the EPG list	Select a programme by pressing the ▲, ▼, ◀, ▶ button.
Exit the guide	Press the Blue button
If the next programme is selected, it is scheduled with the clock icon displayed. If the ENTER button is pressed again, press the ◀, ▶ button to select Cancel Schedules , the scheduling is cancelled with the clock icon gone.	
View programme information	Select a programme of your choice by pressing the ▲, ▼, ◀, ▶ button. Then press the INFO button when the programme of your choice is highlighted. The programme title is on the upper part of the screen centre.
Please click on INFO button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD / SD), Sound Modes, Subtitle or Teletext, languages of Subtitle or Teletext and brief summary of the highlighted programme are included on the detailed information. "... will be appeared if the summary is long.	
Toggle between the Mini Guide and Full Guide	Press the Red button repeatedly.
In Full Guide Scrolls backwards quickly (24 hours). Scrolls forwards quickly (24 hours).	Press the Green button repeatedly. Press the Yellow button repeatedly.
In Mini Guide Display previous page quickly. Display next page quickly.	Press the Green button. Press the Yellow button.

Channel	
Option	Description
Channel List	<p>Using this menu, you can add / delete or set favourites channels and use the programme guide for digital broadcasts.</p> <ul style="list-style-type: none"> <input type="checkbox"/> All Channels Shows all currently available channels. <input type="checkbox"/> Added Channels Shows all added channels. <input type="checkbox"/> Favourites Shows all favourite channels. <input type="checkbox"/> Programmed Shows all current reserved programmes. <p>Select a channel in the All Channels, Added Channels or Favourites screen by pressing the ▲ / ▼ buttons, and pressing the ENTER button. Then you can watch the selected channel.</p>

Using the Colour buttons with the Channel List

- Red (Channel Type): Toggle between your **TV**, **Radio**, **Data** / **Other** and **All**.
- Green (Zoom): Enlarges or shrinks a channel number.
- Yellow (Select): Selects multiple channel lists. You can perform the add/delete or add to favourites/delete from favourites function for multiple channels at the same time. Select the required channels and press the Yellow button to set all the selected channels at the same time. The mark appears to the left of the selected channels.

Channel List Option Menu (in All Channels / Added Channels / Favourites)

- Press the **TOOLS** button to use the option menu.
- Option menu items may differ depending on the channel status.

Add / Delete

You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.

Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

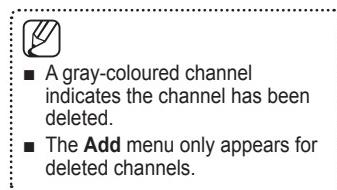
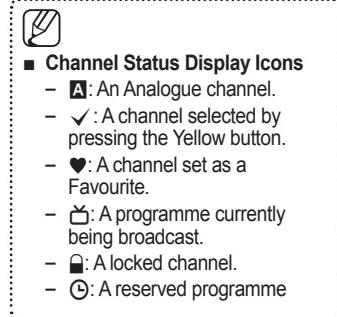
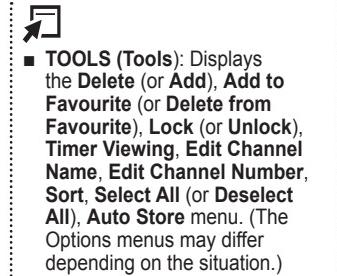
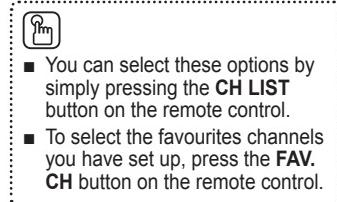
- Press the **TOOLS** button to display the **Tools** menu. You can also set the add to (or delete from) Favourite by selecting **Tools** → **Add to Favourite** (or **Delete from Favourite**).

- The “” symbol will be displayed and the channel will be set as a favourite.
- All favourite channels will be shown on **Favourites** menu.

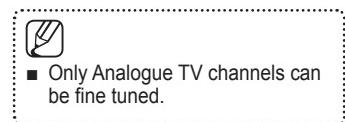
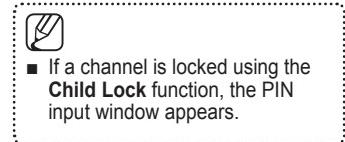
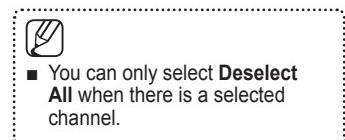
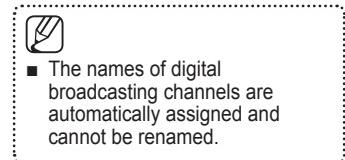
Lock / Unlock

You can lock a channel so that the channel cannot be selected and viewed.

- This function is available only when the **Child Lock** is set to **On**.
- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is “0-0-0-0”. You can change the PIN, by selecting **Change PIN** from the menu.
- The “” symbol will be displayed and the channel will be locked.

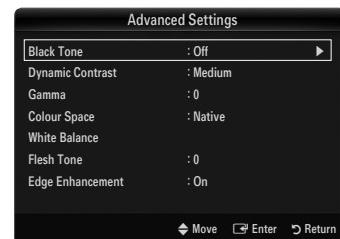
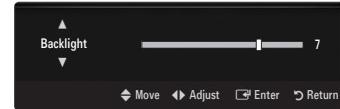
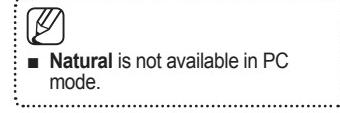
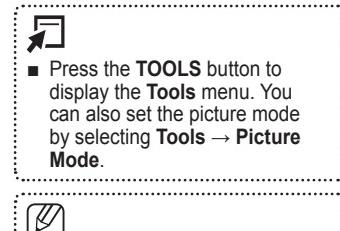


Channel	
Option	Description
Channel List	<p><input type="checkbox"/> Timer Viewing If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme, set the current time first.</p> <ul style="list-style-type: none"> ■ You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control. ■ Reserving a programme will be shown in the Programmed menu. ■ Digital Programme Guide and Viewing Reservation: When a digital channel is selected, and you press the ▶ button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above. <p><input type="checkbox"/> Edit Channel Name (analogue channels only) Channels can be labelled so that their call letters appear whenever the channel is selected.</p> <p><input type="checkbox"/> Edit Channel Number (digital channels only) You can also edit the channel number by pressing the number buttons on the remote control.</p> <p><input type="checkbox"/> Sort (analogue channels only) This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.</p> <p><input type="checkbox"/> Select All / Deselect All <ul style="list-style-type: none"> ■ Select All: You can select all the channels in the channel list. ■ Deselect All: You can deselect all the selected channels. </p> <p><input type="checkbox"/> Auto Store For detailed procedures on setting up options, refer to pages 19~20.</p> <p>Channel List Option Menu (in Programmed) You can view, modify or delete a reservation. Press the TOOLS button to use the option menu.</p> <p><input type="checkbox"/> Change Info Select to change a viewing reservation.</p> <p><input type="checkbox"/> Cancel Schedules Select to cancel a viewing reservation.</p> <p><input type="checkbox"/> Information Select to view a viewing reservation. (You can also change the reservation information.)</p> <p><input type="checkbox"/> Select All Select all reserved programmes.</p>
Channel Mode	When press the P ▼/▲ button, Channels will be switched within the selected channel list.
	<p><input type="checkbox"/> Added Ch. Channels will be switched within the memorized channel list.</p> <p><input type="checkbox"/> Favourite Ch. Channels will be switched within the favourite channel list.</p>
Fine Tune	If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.
	<ul style="list-style-type: none"> ■ Fine tuned channels that have been saved are marked with an asterisk (*) on the right-hand side of the channel number in the channel banner. ■ To reset the fine-tuning, select Reset by pressing the ▲ or ▼ button and then press the ENTER button.



Picture Menu

Picture	
Option	Description
Mode	<p>Selects the type of picture settings that best correspond to your viewing preferences or requirements. Presets a higher brightness, contrast, and sharpness to the picture.</p> <ul style="list-style-type: none"> ■ Dynamic Recommended for use in bright room conditions. ■ Standard Recommended for use in a normal viewing condition. ■ Natural Adds more punch and contrast to the image than the Standard mode. ■ Movie Corresponding to the conditions used in movie, recommended for use in darker viewing conditions.
Backlight / Contrast / Brightness / Sharpness / Colour / Tint(G/R)	<p>Your television has several setting options that allow you to control the picture quality.</p> <ul style="list-style-type: none"> ■ Backlight Adjusts the brightness of LCD back light. ■ Contrast Increases or decreases the brightness in white areas of the picture. Too little contrast and the picture may seem dark; too much contrast and the picture will lose details in white images. ■ Brightness Increases or decreases the overall brightness of the picture, but best used to adjust the black level of the image. Too little brightness and shadow detail will be lost; too much brightness and blacks will be gray and washed out. ■ Sharpness Increases or decreases the apparent detail in the picture. Too little sharpness and the image might look soft. Too much sharpness can add false edges to objects or can make noise more noticeable. ■ Colour Increases or decreases colour saturation levels in the picture. Too little colour and the image will be black and white (undersaturated); too much colour and the image will look oversaturated and cartoonish. ■ Tint(G/R) Changes the picture hue from reddish to a greenish appearance.
Advanced Settings	<p>Samsung's new TVs allow you to make even more precise picture settings than previous models.</p> <ul style="list-style-type: none"> ■ Black Tone → Off / Dark / Darker / Darkest Increases the picture's shadow detail by lightening the black level (ie changing the gamma) at low levels. This is most commonly used for watching movies with dark scenes to keep the picture from appearing washed out in bright rooms. ■ Dynamic Contrast → Off / Low / Medium / High Increases or decreases the difference between the brightest and darkest portions of the image with changing scenes. Shadows are more visible with dark scenes, while contrast is enhanced with bright scenes.



Picture	
Option	Description
Advanced Settings	<ul style="list-style-type: none"> ■ Gamma Changes the rate at which images ramp or fade from light to dark. Recommended for advanced users only. ■ Colour Space Increases or decreases the visible colour range for red, green and blue. Recommended for advanced users only. <ul style="list-style-type: none"> - Auto: The TV will choose the colour range that is closest to the range used during TV and movie production. - Native: Displays the most enhanced, vibrant colours possible. - Custom: Provides precise saturation and colour point adjustment of Red, Green, Blue, Yellow, Cyan, and Magenta. Recommended for advanced users only. ■ White Balance You can adjust the colour temperature for more natural picture colours. <ul style="list-style-type: none"> - R, G, B-Offset: Fine tunes the white balance, or colour 'temperature' in dark areas by changing the individual values of R, G, B. Recommended for advanced users only. - R, G, B-Gain: Fine tunes the white balance, or colour 'temperature' in the light areas by changing the individual values of R, G, B. Recommended for advanced users only. - Reset: Resets the colour space to the default values. ■ Flesh Tone Adjusts the colour of flesh tones. Increasing the value creates a more reddish picture. Decreasing the value creates a more greenish picture. ■ Edge Enhancement Increases or decreases the emphasis at object edges. ■ xvYCC Setting the xvYCC mode to on increases detail and colour space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks.
Picture Options	<ul style="list-style-type: none"> ■ Colour Tone Selects a preset white balance, or 'colour temperature' setting, to provide either a reddish or bluish hue, dependant upon your personal preference. <ul style="list-style-type: none"> - Cool: Selects a white balance, or colour 'temperature' with a bluish hue. Skin tones may have less warmth but whites will seem brighter. Recommended when watching normal TV broadcasting in a bright room. - Normal: Selects the white balance, or colour "temperature" with a less bluish, more reddish hue. Suitable for most viewing environments and programs. - Warm1, Warm2, Warm3: Selects a redder, warmer hue that more closely matches the setting on monitors used in the production of TV and movie content. Recommended when watching movie and dramatic TV content. The lowest setting is best used for black & white content.



- **Advanced Settings** is available in **Standard** or **Movie** mode.
- In PC mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Advanced Settings** items.
- **Colour** is available when **Colour Space** is set to **Custom**.
- In **Colour**, you can adjust the RGB values for the selected colour.
- To reset the adjusted RGB value, select **Reset**.



- **xvYCC** is available when the picture mode is set to **Movie**, and the external input is set to HDMI or Component mode.
- This function may not be supported depending on your external device.

Picture Options	
Colour Tone	: Normal ▶
Size	: Auto Wide
Screen Mode	: 16:9
Digital NR	: Auto
HDMI Black Level	: Normal
Film Mode	: Off
100Hz Motion Plus	: Standard
◀ Move □ Enter ▶ Return	



- In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.
- **Warm1, Warm2** or **Warm3** is only activated when the picture mode is **Movie**.

Picture	
Option	Description
Picture Options	<p>■ Size Changes the screen shape in terms of height and width. Also known as Aspect Ratio.</p> <ul style="list-style-type: none"> - Auto Wide: Enables the correct picture size to match the original video signal. - 16:9: Sets the picture aspect ratio to fill the screen. - Wide Zoom: Enlarges the middle part of the picture. - Zoom: Magnifies the picture contents horizontally and vertically. - 4:3: Sets the picture aspect ratio to 4:3 with black or gray side bars. - Screen Fit: Matches every pixel of the original image to a pixel on the TV screen (aka 1:1 pixel mapping) to show the entire image. <ul style="list-style-type: none"> • Wide Zoom: Press the ► button to select Position, then press the ENTER button. Press the ▲ or ▼ button to move the picture up / down. Then press the ENTER button. • Zoom: Press the ► button to Select Position, then press the ENTER button. Press the ▲ or ▼ button to move the picture up and down. Then press the ENTER button. Press the ▲ or ▼ button to Select Size, then press the ENTER button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the ENTER button. • After selecting Screen Fit in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Select Position by pressing the ◀ or ▶ button. Use the ▲, ▼, ◀ or ▶ button to move the picture. Reset: Press the ◀ or ▶ button to select Reset, then press the ENTER button. You can initialize the setting. • If you use the Screen Fit function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the Overscan function. • When Double (■■, ■■) mode has been set in PIP, the Picture Size cannot be set. <p>■ Screen Mode When setting the picture size to Auto Wide in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.</p> <ul style="list-style-type: none"> - 16:9: Sets the picture to 16:9 wide mode. - Wide Zoom: Magnify the size of the picture more than 4:3. - Zoom: Magnify the size of the picture vertically on screen. - 4:3: Sets the picture to 4:3 normal mode. <p>■ Digital NR → Off / Low / Medium / High / Auto Can reduce the grain effect or level of video noise seen in images coming from poor quality sources.</p> <p>■ HDMI Black Level → Normal / Low Adjusts the black level in the picture according to the type of signal being transmitted through HDMI.</p> <p>■ Film Mode Applies the appropriate video processing needed to achieve the best picture quality for watching movies.</p> <ul style="list-style-type: none"> - Off: Turn the Film Mode function off. - Auto1: Improves the picture quality for fast motion scenes. - Auto2: Allows a smoother text motion on fast motion scenes.
	<p> ■ Press the TOOLS button to display the Tools menu. You can also set the size by selecting Tools → Picture Size.</p> <p> ■ Depending on the input source, the picture size options may vary.</p> <p>■ The items available may differ depending on the selected mode.</p> <p>■ In PC Mode, only 16:9 and 4:3 mode can be adjusted.</p> <p>■ Settings can be adjusted and stored for each external device you have connected to an input of the TV.</p> <p>■ Temporary image retention may occur when viewing a static image on the set for more than two hours.</p>
	<p> ■ This function is available in Auto Wide mode.</p> <p>■ This function is not available in PC, Component or HDMI mode.</p>
	<p> ■ This function is active only when an external device is connected to the TV via HDMI (RGB signals).</p>
	<p> ■ Film Mode is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).</p>

Picture	
Option	Description
Picture Options	<ul style="list-style-type: none"> ■ 100Hz Motion Plus → Off / Clear / Standard / Smooth / Custom / Demo <ul style="list-style-type: none"> Removes drag from fast scenes with a lot of movement to provide a clearer picture. If you enable 100 Hz Motion Plus, noise may appear on the screen. If this occurs, set 100Hz Motion Plus to Off. <ul style="list-style-type: none"> - Off: Switches 100Hz Motion Plus off. - Clear: Sets 100Hz Motion Plus to minimum. - Standard: Sets 100Hz Motion Plus to medium. - Smooth: Sets 100Hz Motion Plus to maximum. - Custom: Adjusts the blur and judder reduction level to suit your preference. <ul style="list-style-type: none"> • Blur Reduction: Adjusts the blur reduction level from video sources. • Judder Reduction: Adjusts the judder reduction level from video sources when playing films. • Reset: Reset the custom settings. - Demo: Displays the difference between 100Hz Motion Plus on and off modes. ■ Blue Only Mode <ul style="list-style-type: none"> Helps to adjust the colour and tint controls when used with colour bar test patterns. Recommended for qualified picture alignment specialists only. Available only when the Picture Mode is set to Movie or Standard.
Picture Reset	<p>Resets all picture settings to the default values.</p> <ul style="list-style-type: none"> ■ Reset Picture Mode: Current picture values return to default settings.



- **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.

Picture (In the PC mode)	
Option	Description
Auto Adjustment	<p>Use the Auto Adjust function to have the TV set automatically adjust the video signals it receives.</p> <p>The function also automatically fine-tunes the settings and adjusts the frequency values and positions.</p>
Screen	<ul style="list-style-type: none"> ■ Coarse / Fine <p>The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the centre of screen.</p> ■ PC Position <p>Adjust the PC's screen positioning if it does not fit the TV screen.</p> <p>Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◀ or ▶ button to adjust the Horizontal-Position.</p> ■ Image Reset <p>You can replace all image settings with the factory default values.</p>



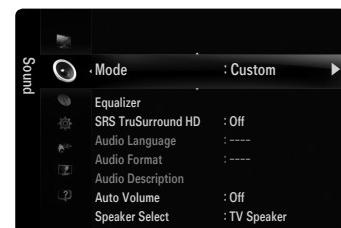
- Preset: Press the **SOURCE** button to select **PC** mode.
- This function does not work in DVI-HDMI mode.



- Press the **TOOLS** button to display the **Tools** menu. You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment**.

Sound Menu

Sound	
Option	Description
Mode	<ul style="list-style-type: none"> ■ Standard: Selects the normal sound mode. ■ Music: Emphasizes music over voices. ■ Movie: Provides the best sound for movies. ■ Clear Voice: Emphasizes voice over other sounds. ■ Custom: Recalls your customized sound settings.
Equalizer	<p>The sound settings can be adjusted to suit your personal preferences.</p> <ul style="list-style-type: none"> ■ Mode: Selects the sound mode among the predefined settings. ■ Balance L/R: Adjusts the balance between the right and left speaker. ■ 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies. ■ Reset: Resets the equalizer settings to the default values.
SRS TruSurround HD	<p>SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.</p>
Audio Language	<p>You can change the default value for audio languages. Displays the language information for the incoming stream.</p> <ul style="list-style-type: none"> ■ While viewing a digital channel, this function can be selected. ■ You can only select the language among the actual languages being broadcast.
Audio Format	<p>When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.</p> <ul style="list-style-type: none"> ■ While viewing a digital channel, this function can be selected. ■ The Audio Format appears according to the broadcasting signal.
Audio Description	<p>This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume.</p> <ul style="list-style-type: none"> ■ Audio Description Turn the audio description function on or off. ■ Volume You can adjust the audio description volume. <ul style="list-style-type: none"> – Volume is active when Audio Description is set to On. – While viewing a Digital channel, this function can be selected.
Auto Volume	<p>Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.</p>
Speaker Select	<p>When you watch TV with it connecting to a Home theatre, turn the TV speakers off so you can listen to sound from the Home theatre's (external) speakers.</p> <ul style="list-style-type: none"> ■ External Speaker: Used to listen to the sound of the External (Home Theatre) Speakers. ■ TV Speaker: Used to listen to the sound of the TV Speakers.



■ Press the **TOOLS** button to display the **Tools** menu. You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the SRS TruSurround HD by selecting **Tools** → **SRS TS HD**.

■ The volume buttons and **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.

■ If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

Selecting the Speaker

	TV's Internal Speakers	Audio Out (Optical, L/R Out) to Sound System
	RF / AV / Component / PC / HDMI	RF / AV / Component / PC / HDMI
TV Speaker	Sound Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

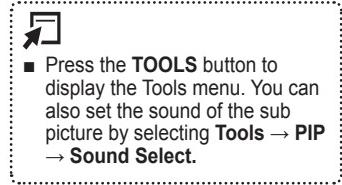
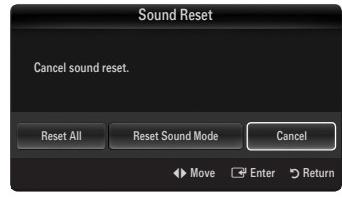
Sound	
Option	Description
Sound Select	When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture. ■ You can select this option when PIP is set to On.
Sound Reset	You can restore the Sound settings to the factory defaults. Reset Sound Mode: Current sound values return to default settings.

Selecting the Sound Mode

You can set the sound mode in the **Tools** menu. When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Audio Type	Dual 1 / 2	Default
A2 Stereo	Mono	MONO	Automatic change
	Stereo	STEREO ↔ MONO	
	Dual	DUAL 1 ↔ DUAL 2	DUAL 1
NICAM Stereo	Mono	MONO	Automatic change
	Stereo	MONO ↔ STEREO	
	Dual	► MONO ↔ DUAL 1 DUAL 2 ←	DUAL 1

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in TV mode.



Setup Menu

Setup	
Option	Description
Language	You can set the menu language.
Time	<p><input type="checkbox"/> Clock Setting the clock is necessary in order to use the various timer features of the TV. If you disconnect the power cord, you have to set the clock again.</p> <p>■ Clock Mode You can set up the current time manually or automatically.</p> <ul style="list-style-type: none"> - Auto: Set the current time automatically using the time from the digital broadcast. - Manual: Set the current time to a manually specified time. <p>■ Clock Set You can set the current time manually.</p> <ul style="list-style-type: none"> - This function is only available when Clock Mode is set to Manual. - You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control. <p><input type="checkbox"/> Sleep Timer The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).</p> <p>■ To cancel the Sleep Timer function, select Off.</p> <p><input type="checkbox"/> Timer 1 / Timer 2 / Timer 3 Three different on / off timer settings can be made. You must set the clock first.</p> <p>■ On Time Set the hour, minute, and activate / deactivate. (To activate timer with the setting you've chosen, set to Activate.)</p> <p>■ Off Time Set the hour, minute, and activate / deactivate. (To activate timer with the setting you've chosen, set to Activate.)</p> <p>■ Volume Set the desired volume level.</p> <p>■ Source → TV / USB You can select the TV or USB device content to be played when the TV turns on automatically. Select TV or USB. (Make sure that an USB device is connected to your TV.)</p> <p>■ Antenna (when Source is set to TV) Select ATV or DTV.</p> <p>■ Channel (when Source is set to TV) Select the desired channel.</p> <p>■ Contents (when Source is set to USB) You can select a folder on the USB Device with music or photo files to be played when the TV turns on automatically.</p> <ul style="list-style-type: none"> - If the folder name is too long, the folder cannot be selected. - If you are using two of the same type USB device, be sure the folder names are different so the correct USB is read. <p>■ Repeat Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. <ul style="list-style-type: none"> - When Manual is selected, press the ▶ button to select the desired day of the week. Press the ENTER  button over the desired day and the ✓ mark will appear. - You can set the hour, minute and channel by pressing the number buttons on the remote control. </p>



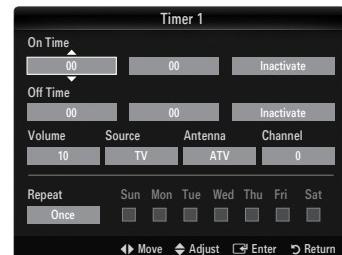
- The current time will appear every time you press the **INFO** button.



- Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.
- The Antenna or cable must be connected in order to set the time automatically.



- Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.



- When there is only one photo file in the **USB** the **Slide Show** will not play.



- **Auto Power Off**
When you set the timer on, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer on mode and prevents overheating, which may occur if a TV is on for too long time.

Setup	
Option	Description
Game Mode	<p>When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.</p> <ul style="list-style-type: none"> ■ If Game Mode is On: <ul style="list-style-type: none"> - Picture mode is automatically changed to Standard and cannot be changed. - Sound mode is automatically changed to Custom and cannot be changed. Adjust the sound using the equalizer. - The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer settings to the factory defaults.
BD Wise	<p>Provides the optimal picture quality for SAMSUNG DVD, Blu-ray and Home Theatre products which support BD Wise. You can enjoy a richer picture when using them connected to this Samsung TV.</p> <ul style="list-style-type: none"> ■ Connect SAMSUNG products that have BD Wise using an HDMI cable. ■ When the BD Wise set to On, the picture mode is automatically changed to the optimal resolution. ■ BD Wise is available in HDMI mode.
Network Type / Network Setup	<p>For detailed procedures on setting up options, refer to pages 36~38.</p>
Child Lock	<p>This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by muting out video and audio.</p> <ul style="list-style-type: none"> ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is 0-0-0-0. ■ You can change the PIN by selecting Change PIN from the menu. ■ You can lock some channels in Channel List.
Change PIN	<p>You can change your personal ID number that is required to set up the TV.</p> <ul style="list-style-type: none"> ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is 0-0-0-0.
Parental Lock > Parental Rating	<p>This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by a 4-digit PIN (Personal Identification Number) code that is defined by the user.</p> <ul style="list-style-type: none"> ■ The Parental Rating item differs depending on the country. ■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is "0-0-0-0". ■ You can change the PIN by selecting Change PIN from the menu. ■ When the parental ratings are set, the "■" symbol is displayed. ■ Allow All: Press to unlock all TV ratings. ■ Block All: Press to lock all TV ratings.



■ **Restrictions on game mode (Caution)**

- To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
- **Game Mode** is not available in regular TV, PC and Ext mode.
- While PIP is in operation, the **Game Mode** function cannot be used.
- If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. Set **Game Mode** to **Off** and connect external devices.



■ **Child Lock** is available only in TV mode.



- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: **POWER** (Off) → **MUTE** → **8** → **2** → **4** → **POWER** (On).

Setup	
Option	Description
Subtitle	<p>You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. Normal under the menu is the basic subtitle and Hard of hearing is the subtitle for a hearing-impaired person.</p> <ul style="list-style-type: none"> ■ Subtitle Switches subtitles on or off. ■ Mode Sets the subtitle mode. ■ Subtitle Language Set the subtitle language. <ul style="list-style-type: none"> – If the programme you are watching does not support the Hard of hearing function, Normal automatically activates even though Hard of hearing mode is selected. – English is the default in cases where the selected language is unavailable in the broadcast.
Teletext Language	<p>You can set the Teletext language by selecting the language type.</p> <ul style="list-style-type: none"> ■ English is the default in cases where the selected language is unavailable in the broadcast.
Preference	<ul style="list-style-type: none"> ■ Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language / Primary Teletext Language / Secondary Teletext Language <p>Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel</p> <p>If you change the language setting, the Subtitle Language, Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language.</p> <p>The Subtitle Language, Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language, or the Primary Teletext Language of the Preference menu.</p>
Digital Text	<p>If the programme is broadcast with digital text, this feature is enabled.</p> <ul style="list-style-type: none"> ■ MHEG (Multimedia and Hypermedia Information Coding Experts Group) <p>An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.</p>
Melody	<p>A melody sound can be set to come on when the TV is powered On or Off.</p> <ul style="list-style-type: none"> ■ The Melody does not play <ul style="list-style-type: none"> – When no sound is output from the TV because the MUTE button has been pressed. – When no sound is output from the TV because the volume has been reduced to minimum with the volume (-) button. – When the TV is turned off by Sleep Timer function.
Energy Saving	<p>This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the Energy Saving mode option to High to reduce eye fatigue as well as power consumption.</p>



- You can select these options simply by pressing the **SUBT.** button on the remote control.



- Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

Option	Description
PIP	<p>You can use the PIP feature to simultaneously watch the TV tuner and one external video source. This product has one built-in tuner, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.</p> <ul style="list-style-type: none"> If you select the PIP picture sound, refer to the 'Sound Menu' instructions. <p>PIP</p> <p>You can activate or deactivate the PIP function.</p> <p><input type="checkbox"/> Size → <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/></p> <p>You can select a size of the sub-picture.</p> <p><input type="checkbox"/> Position → <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/></p> <p>You can select a position of the sub-picture.</p> <ul style="list-style-type: none"> In Double (<input type="checkbox"/>, <input type="checkbox"/>) mode, Position cannot be selected. <p><input type="checkbox"/> Channel</p> <p>You can select the channel for the sub-screen.</p>

PIP Settings

Main picture	Sub picture
Component HDMI1, HDMI2, HDMI3/DVI, HDMI4 PC	TV

Common Interface**■ CI Menu**

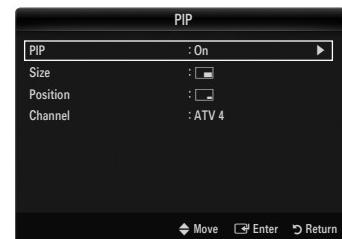
This enables the user to select from the CAM-provided menu.

Select the CI Menu based on the menu PC Card.

■ Application Info.

This contains information on CAM inserted in the CI slot and displays it. The Application Info inserting is about the CI CARD. You can install the CAM anytime whether the TV is ON or OFF.

- Purchase the CI CAM module by visiting your nearest dealer or by phone.
- Insert the CI CARD into the CAM in the direction of the arrow until it fits.
- Insert the CAM with the CI CARD installed into the common interface slot.
(Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.)
- Check if you can see a picture on a scrambled signal channel.



- Press the **TOOLS** button to display the **Tools** menu. You can also configure PIP related settings by selecting **Tools** → **PIP**.



- If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- While **Internet@TV** is in operation, the **PIP** function cannot be used.

Network Connection

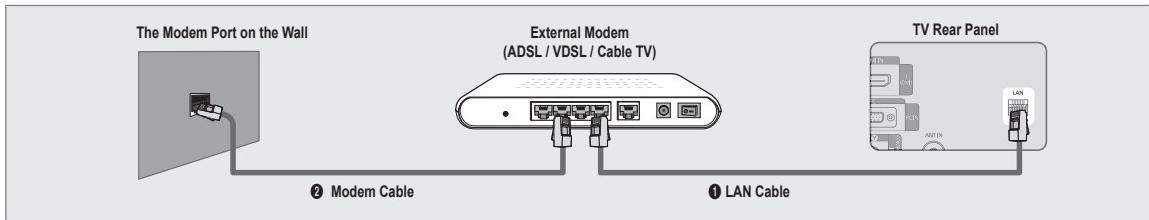
You can set up the Internet Protocol so that you can communicate with various connected networks.

□ Network Connection - Cable

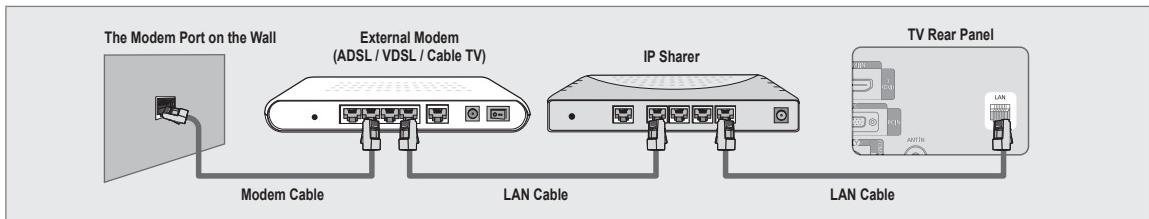
■ LAN Connection for a DHCP Environment

The procedures to set up the network using Dynamic Host Configuration Protocol (DHCP) are described below. Since an IP address, subnet mask, gateway, and DNS are automatically allocated when DHCP is selected, you do not have to enter them manually.

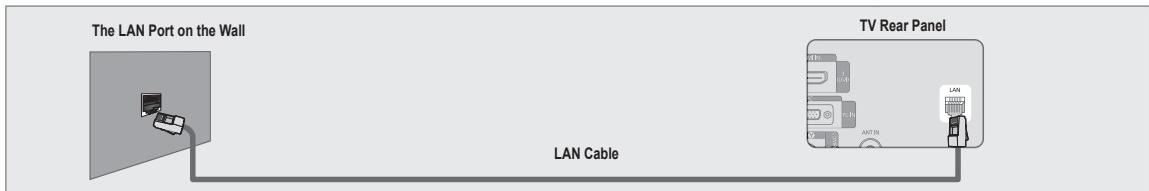
- 1** Connect the LAN port on the rear panel of the TV and the external modem with a LAN Cable.
- 2** Connect the Modem port on the wall and the external modem with a Modem Cable.



You can connect the LAN via a Sharer (Router).



You can connect the LAN port and the TV directly depending on your network status.

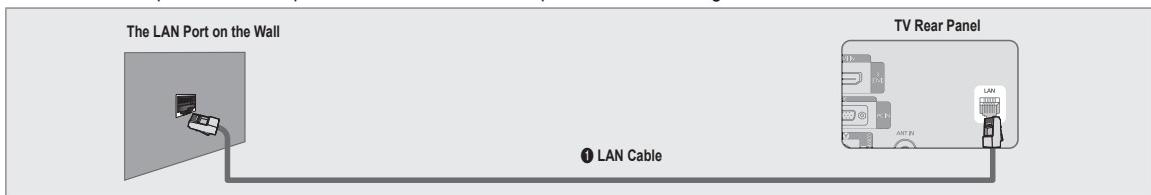


- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If the IP address allocation by the DHCP server has failed, turn the external modem off, turn it on again after at least 10 seconds and then try again.
- For the connections between the external modem and the Sharer (Router), refer to the owner's manual of the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router)
- You cannot use a manual-connection-type ADSL modem because it does not support DHCP. You have to use an automaticconnection-type ADSL modem.

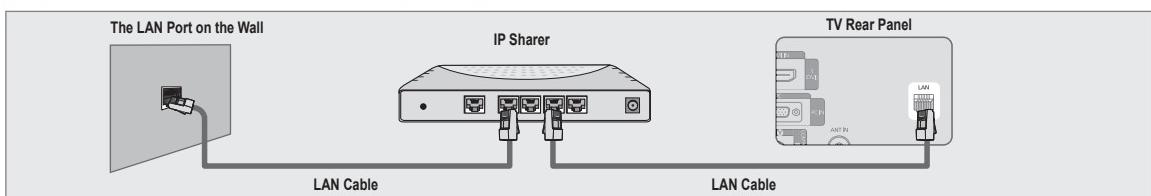
■ LAN Connection for Static IP Environment

The procedures to set up the network using a static IP address are described below. You have to manually enter the IP address, subnet mask, gateway, and DNS that are provided by your Internet Service Provider (ISP).

Connect the LAN port on the rear panel of the TV and the LAN port on the wall using the LAN cable.



You can connect the LAN via a Sharer (Router).

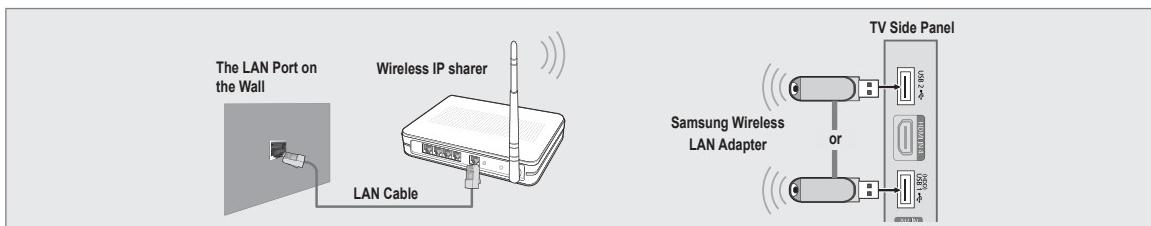


- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If you are using a static IP address, your ISP will inform you of the IP address, subnet mask, gateway, and DNS. You must enter these values to complete the network settings. If you do not know the values, ask your network administrator.
- For the information on how to configure and connect a Sharer (Router), refer to the owner's manual for the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- If you use an IP Sharer (IP Router) that supports DHCP, you can set up the device as either DHCP or static IP.
- For the procedures to use a static IP address, ask your Internet Service Provider.

□ Network Connection - Wireless

You can connect to the network wirelessly through a wireless IP sharer.

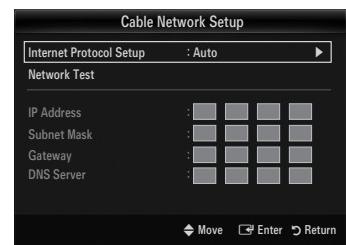
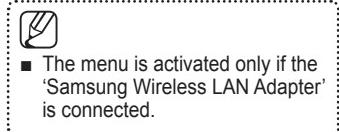
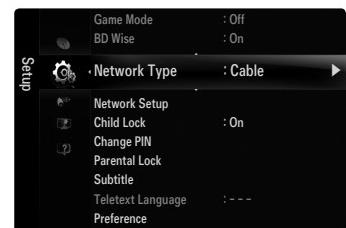
Connect the 'Samsung Wireless LAN Adapter' into the **USB1(HDD)** or **USB2** terminal of the TV.



- You must use the 'Samsung Wireless LAN Adapter'(WIS09ABGN) to use a wireless network.
- Samsung's Wireless LAN adapter is sold separately. The WIS09ABGN Wireless LAN adapter is offered by select retailers, Ecommerce sites and Samsungparts.com.
- To use a wireless network, your TV must be connected to a wireless IP sharer. If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- Samsung's Wireless LAN adapter supports IEEE 802.11A, IEEE 802.11B, IEEE 802.11G, IEEE 802.11N. When you play DLNA video over IEEE 802.11B/G connection, the video may not be played smoothly.
- If the wireless IP sharer allows you to turn the Ping connection function on/off, turn it on.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communications may fail.
- If you apply a security system other than the systems listed below, it will not work with the TV.
 - When applying the security key for the AP (wireless IP sharer), only the following is supported.
 - 1) Authentication Mode : OPEN, SHARED, WPAPSK, WPA2PSK
 - 2) Encryption Type : WEP, TKIP, AES
 - When applying the security key for the Ad-hoc mode, only the following is supported.
 - 1) Authentication Mode : SHARED, WPANONE
 - 2) Encryption Type : WEP, TKIP, AES
- If your AP supports WPS(Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- If the device isn't certified, it may not connect to the TV via the 'Samsung Wireless LAN Adapter'.

Setting the Network

Setup	
Option	Description
Network Type	Select Cable or Wireless as the method to connect to the network. <ul style="list-style-type: none"> ■ Cable Connect to the network using a cable. ■ Wireless Connect to the network wirelessly.
Network Setup	<p><input type="checkbox"/> Cable Network Setup (when Network Type is set to Cable)</p> <ul style="list-style-type: none"> ■ Please check if the LAN cable is connected. <ul style="list-style-type: none"> - Internet Protocol Setup → Auto / Manual - Network Test: You can test or confirm the network connection status after setting up the network. <p>Cable Network Setup-Auto</p> <p>If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured.</p> <ol style="list-style-type: none"> 1. Set Network Type to Cable. 2. Select Cable Network Setup. The Internet Protocol is set automatically. 3. Set Internet Protocol Setup to Auto. 4. Select Network Test to check the network connectivity.



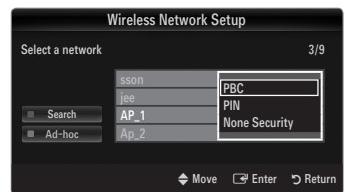
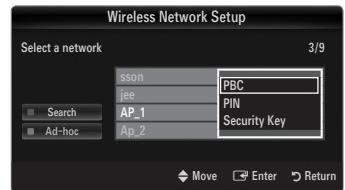
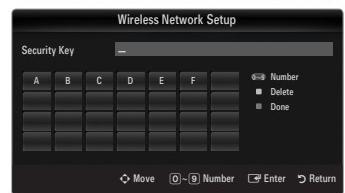
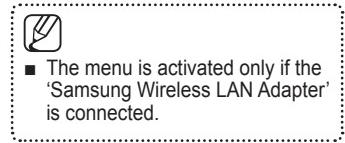
When unable to connect to a wired network

If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If your Internet service provider requires an ID or password to connect to the Internet (network), your TV may not be able to connect to the Internet. In this case, you have to enter your ID or password when connecting to the Internet using an Internet Sharer (Router).

The internet connection may fail due to a firewall problem. In this case, contact your Internet service provider. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact Samsung Electronics.

Option	Description
Network Setup	<p>Cable Network Setup-Manual</p> <p>To connect the TV to the LAN using a static IP address, you must set up the Internet Protocol (IP).</p> <ol style="list-style-type: none"> 1. Set Network Type to Cable. 2. Select Cable Network Setup. 3. Set Internet Protocol Setup to Manual. 4. Set up IP Address, Subnet Mask, Gateway and DNS Server. <ul style="list-style-type: none"> ■ Press the number buttons on the remote control when you set the Network manually. 5. Select Network Test to check the network connectivity. <p>■ Wireless Network Setup</p> <ul style="list-style-type: none"> - Internet Protocol Setup → Auto / Manual - Network Test: You can test or confirm the network connection status after setting up the network. - Select a network: Access Point: You can select the IP sharer to use when using a wireless network. <ul style="list-style-type: none"> • If a wireless Access Point is not in the Access Point list, press the Red button. • When the connection is made, you will be returned to the screen automatically. • If you have selected an Access Point with a security authentication: The Security Key input screen appears. Enter the security key and press the Blue button on the remote control. • If security encryption type is WEP, 0~9, A~F will be available when you input security key. <p>Connecting WPS (Wi-Fi Protected Setup)</p> <p>If Security Key is already set: In access point list, select WPS.</p> <p>■ You can select PBC, PIN, Security Key.</p> <ul style="list-style-type: none"> - Connecting by using PBC: Select a PBC (Push Button Configuration). Press the PBC button on the AP (access point) within 2minutes, and wait for connection. - Connecting by using PIN: Select a PIN (Personal Identification Number). <ul style="list-style-type: none"> • The message showing the PIN Code is displayed. Input the PIN Code at AP device within 2minutes. Select OK and wait for connection. • Try again if connecting operation doesn't work. • When the connection is not established although tried again, reset the access point. Please refer to a manual of each access point. - Connecting by using Security Key: When selecting Security Key, the input window is displayed. Input the security key and press ENTER button. <ul style="list-style-type: none"> • Try again if connecting operation doesn't work. - If Security Key is not set: When security setting of AP that supports WPS is NONE, you can select PBC, PIN, None Security. None Security is capable of connecting to AP directly without using WPS function. <ul style="list-style-type: none"> • Process of PBC, PIN is same as above. Refer to if Security Key is already set. • Try again if connecting operation doesn't work.

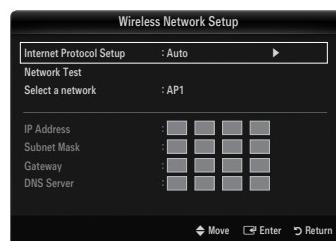
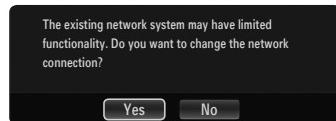


Option	Description
Network Setup	<p>- Ad-hoc: You can connect to a mobile device without an access point through the 'Samsung Wireless LAN Adapter' by using a peer to peer network.</p> <p>How to connect to new Ad-hoc</p> <ol style="list-style-type: none"> 1. Choose Select a network, then a device list is displayed. 2. While in the device list, press the Blue button on the remote or select Ad-hoc. <ul style="list-style-type: none"> ■ The message that means the existing network is disconnected is displayed. 3. Input the generated Network Name(SSID) and Security Key into the device you want to connect. <p>How to connect an existing Ad-hoc device</p> <ol style="list-style-type: none"> 1. Choose Select a network, the device list is displayed. 2. Select the device you want in the Device list. 3. If security key was applied, input the security key again. <ul style="list-style-type: none"> ■ If network doesn't operate normally, please check the Network Name(SSID) and Security Key again. If the Security Key is incorrect, it may be the reason for the malfunction.

Wireless Network Setup-Auto

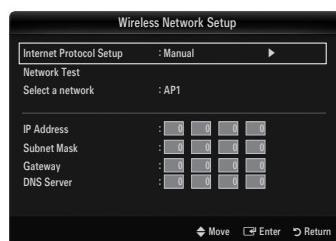
If you want to connect AP, AP should support DHCP. Only devices which support Ad-hoc mode can be connected without DHCP.

1. Set **Network Type** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Auto**.
 - The Internet Protocol is set automatically.
4. Select a network through **Select a network**.
5. Select **Network Test** to check the network connectivity.



Wireless Network Setup-Manual

1. Set **Network Type** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Manual**.
4. Set up **IP Address**, **Subnet Mask**, **Gateway** and **DNS Server**.
 - Press the number buttons on the remote control when you set the Network manually.
5. Select **Network Test** to check the network connectivity.



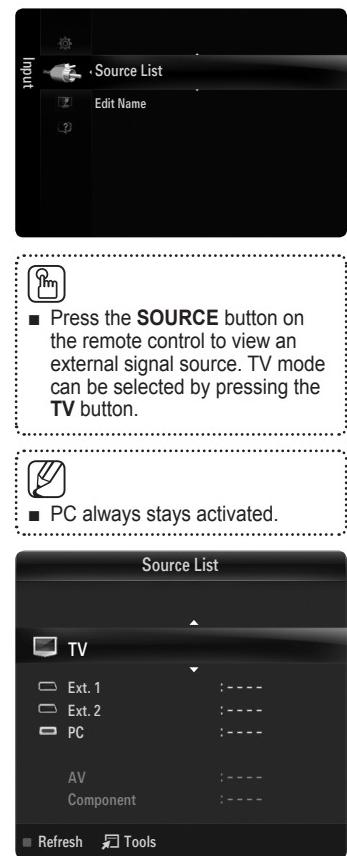
When unable to connect to an AP(Access Point)

Your TV may fail to locate an AP(Access Point) that is configured as a private SSID type. In this case, please change the AP settings and try again. If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics.

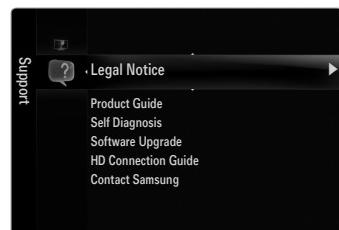
Input Menu

Input	
Option	Description
Source List	<p>Use to select TV or other external input sources such as DVD / Blu-ray players / Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.</p> <ul style="list-style-type: none"> ■ TV / Ext.1 / Ext.2 / AV / Component / PC / HDMI1 / HDMI2 / HDMI3/DVI / HDMI4 / USB / DLNA. <ul style="list-style-type: none"> – You can choose only those external devices that are connected to the TV. In the Source List, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom. – If USB devices are connected to the USB1(HDD) and USB2 jacks, they are displayed as USB1 and USB2 in order. – Using the Colour buttons on the remote with the Source list. <ul style="list-style-type: none"> • Red (Refresh): Refreshes the connected external devices. Press this if your Source is on and connected, but does not appear in the list. • TOOLS (Tools): Displays the Edit Name and Information menus.
Edit Name	<p>Name the device connected to the input jacks to make your input source selection easier.</p> <ul style="list-style-type: none"> ■ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / game / Camcorder / PC / DVI / DVI PC / TV / IPTV / Blu-ray / HD DVD / DMA <ul style="list-style-type: none"> – When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 3(DVI) port, you should set the HDMI3/DVI mode to DVI PC in the Edit Name of the Input mode. – When connecting an HDMI/DVI cable to the HDMI IN 3(DVI) port, you should set the HDMI3/DVI mode to DVI or DVI PC in the Edit Name of the Input mode. In this case, a separate sound connection is required.



Support menu

Support	
Option	Description
Legal Notice	<p>View the Legal Notice and General Disclaimer regarding Third Party Contents and Service.</p> <ul style="list-style-type: none"> ■ The General Disclaimer may differ depending on the country.
Product Guide	<p>The Product Guide gives you information on the most important features of this TV.</p> <p>The descriptions provided by this function are in English only.</p> <ul style="list-style-type: none"> Picture Quality <ul style="list-style-type: none"> Full HD 1080p 100Hz Motion Plus Picture Mode Medi@2.0 <ul style="list-style-type: none"> Internet@TV Content Library Flash USB2.0 Movie DLNA Wireless Eco-Friendly <ul style="list-style-type: none"> Energy Saving Mode Eco Material



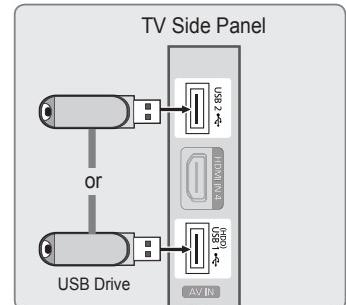
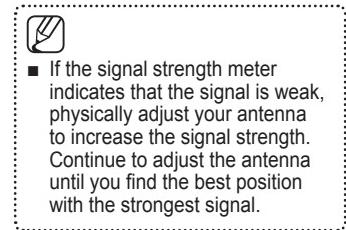
Using the Remote Control Buttons in the Product Guide Menu

Button	Operations
Yellow Button	Shows the contents of the Product Guide sequentially. (Auto Play)
◀/▶	Move the cursor and select an item.
ENTER ↴	Select the currently selected item.
RETURN ⏪	Return to the previous menu.
EXIT ⏵	Stop the current function and return to the Product Guide main menu.

Support	
Option	Description
Self Diagnosis	<ul style="list-style-type: none"> ■ Picture Test If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem still exists. <ul style="list-style-type: none"> – Yes: If the test pattern does not appear or there is noise in the test pattern, select Yes. Therefore, contact Samsung's call centre for assistance. – No: If the test pattern is properly displayed, select No. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual. ■ Sound Test If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV. 'Does the problem still exist with this sound test?' appears on the screen. <ul style="list-style-type: none"> – Yes: If during the sound test you can hear sound only from one speaker or not at all, select Yes. Therefore, contact Samsung's call centre for assistance. – No: If you can hear sound from the speakers, select No. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

- If you hear no sound from the TV's speakers, before performing the sound test, make sure Speaker Select is set to TV speaker in the Sound menu.
- The melody will be heard during the test even if Speaker Select is set to External Speaker or the sound is muted by pressing the MUTE button.

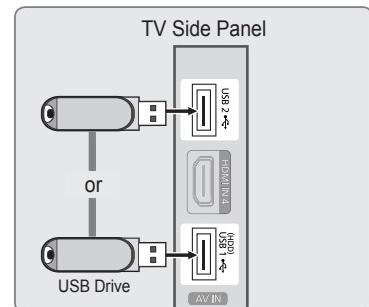
Support	
Option	Description
Self Diagnosis	<p>■ Signal Information (digital channels only) Unlike analogue channels, which can vary in reception quality from 'snowy' to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analogue channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.</p>
Software Upgrade	<p>Samsung may offer upgrades for the TV's firmware in the future. These upgrades can be performed via the TV when it is connected to the Internet, or by downloading the new firmware from samsung.com to a USB memory device.</p> <ul style="list-style-type: none"> - Current Version is the software already installed in the TV. - Alternative Software (Backup) shows the previous version that will be replaced. - Software is represented as 'Year/Month/Day_Version'. The more recent the date, the newer the software version. Installing the latest version is recommended. <p>■ By USB Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete (the new version will have a higher number than the older version). When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.</p> <p>■ By Channel Upgrades the software using the broadcasting signal. <ul style="list-style-type: none"> - If the function is selected during the software transmission period, this function searches for available software and downloads the software. - The time required to download the software is determined by the signal status. <p>■ Standby Mode Upgrade To continue software upgrade with master power on, Select On by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the LCD product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.</p> <p>■ Alternative Software (Backup) If there is an issue with the new firmware and it is affecting operation, you can change the software to the previous version. <ul style="list-style-type: none"> - If software was changed, existing software is displayed. - You can change current software to alternative software by 'Alternative Software'. </p></p>
HD Connection Guide	This menu presents the connection method that provides the optimal quality for the HD TV. Refer to this information when connecting external devices to the TV.
Contact Samsung	View this information when your TV does not work properly or when you want to upgrade the software. You can view the information regarding the call centre, product and software file download method.



Media Play - USB Device

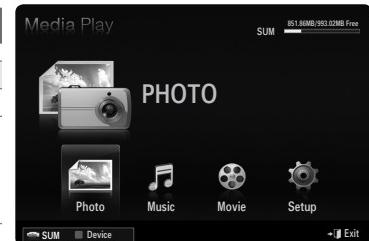
Connecting a USB Device

- 1** Press the **POWER** button to turn the TV on.
- 2** Connect a USB device containing photo, music and/or movie files to the **USB1(HDD)** or **USB2** jack on the side of the TV.
- 3** When the **Application** selection screen is displayed, press the **ENTER** button to select **Media Play (USB & DLNA)**.



Using the Remote Control Button in Media Play Menu

Button	Operations
▲/▼/◀/▶	Move the cursor and select an item.
ENTER	Select the currently selected item. While playing a slide show, movie, or music file: <ul style="list-style-type: none"> - Pressing the ENTER button during play pauses the play. - Pressing the ENTER button during pause resumes the play.
▶/■	Play or pause the Slide Show, music or movie.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
■	Stop the current slide show, Music or Movie file.
◀/▶	Jump to previous group/Jump to next group.
INFO	Show file information.
MEDIA.P	Exit Media Play mode.
↖ P ↘, EXIT, TV	Stop Media Play mode and Returns to TV mode.



- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **Media Play** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported.).
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Connect a USB HDD to the dedicated port, **USB1 (HDD)** port. However, if the connected device requires high power, the **USB1 (HDD)** may fail to support the device.
- Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- The sequential JPEG format is supported.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the 'Not Supported File Format' message is displayed.
- If sort key is set to Basic View, up to 1000 files can be displayed in each folder. The other sort key can display up to 10000 files.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than one MSC device is connected, some of them may not be recognized.
- If a device requires high power (more than 500mA or 5V), the USB device may not be supported.
- If an over-power (Fail add new device USB1/USB2 Power Overload) warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.

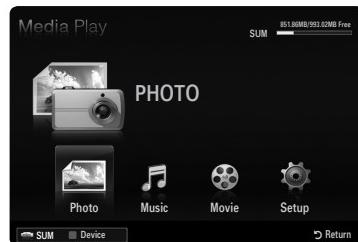
Media Play Function

This function enables you to view and listen to photo, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

- It might not work properly with unlicensed multimedia files.

Entering the Media Play (USB & DLNA) Menu

- 1 Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER** button.
- 2 Press the **▲** or **▼** button to select **Media Play (USB & DLNA)**, then press the **ENTER** button.
 - The **Media Play (USB & DLNA)** menu is displayed.
- 3 Press the Red button, then press the **▲** or **▼** button to select the USB Memory. Press the **ENTER** button.
 - This function differs depending on the USB Memory Device / DLNA device.
 - The selected USB device name appears at the bottom left of the screen.
- 4 Press the **◀** or **▶** button to select an icon (**Photo**, **Music**, **Movie**, **Setup**), then press the **ENTER** button.
 - To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.

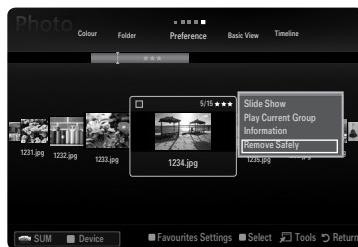


- Press the **MEDIA.P** button on the remote control to display the **Media Play** menu.
■ Press the **SOURCE** button on the remote control to view the source list. Then Press the **▲** or **▼** button to select **USB**.

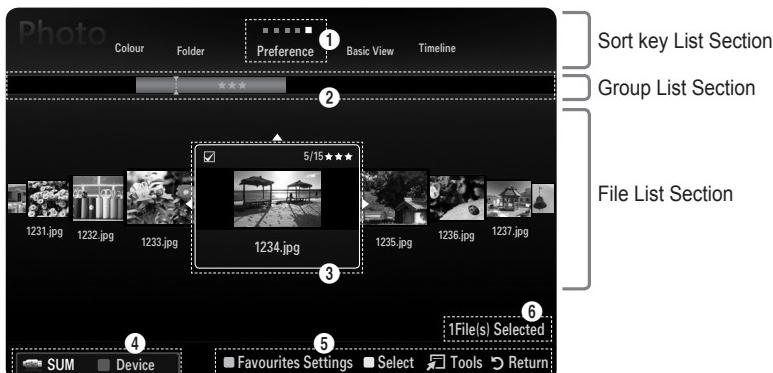
Removing a USB Memory Device Safely

You can remove the device safely from the TV.

- 1 Press the **TOOLS** button in the Media Play file list screen, or while a Slide Show, music or movie is being played.
- 2 Press the **▲** or **▼** button to select **Remove Safely**, then press the **ENTER** button.
- 3 Remove the USB device from the TV.



Screen Display



Move to either 'Sort key List Section', 'Group List Section' or 'File List Section' using the Up and Down buttons. After selecting a section, press the **◀** or **▶** buttons to select an item.

- ① Current Sort key: This field shows the current standard for sorting files.
Press the ▲ or ▼ button to change the standard for sorting files.
- ② View Groups: Shows the detailed groups of the files sorted according the selected Sort key. The sort group where the currently selected file is contained is highlighted.
- ③ Currently selected file: The selected file is the file you can now control.
Photo and movie files are displayed as thumbnail images.
- ④ Current Device: Shows the currently selected device name.
Press the Red button to select a device.
 - Red (Device) button: Selects a connected device.
- ⑤ Help Items
 - Green (Favourites Settings) button: Changes the Favourites Settings for the selected file. Press this button repeatedly until the desired value appears.
 - Yellow (Select) button: Selects file from the file list.
Selected files are marked with a symbol ✓.
Press the Yellow button again to cancel a file selection.
 - TOOLS (Tools) button: Displays the option menus.
(The option menu changes according to the current status.)
- ⑥ Item Selection Information: Shows the number of files that are selected by pressing the Yellow button.

Sorting the Photo List

You can sort photos in the Photo List by a particular standard.

- 1 Press the **MEDIA.P** button.
- 2 Press the ▲ or ▼ button to select **Photo**, then press the **ENTER** button.
- 3 Press the ▲ button to move to the Sort key Section.
- 4 Press the ▲ or ▼ button to select a sorting standard. (**Basic View**, **Timeline**, **Colour**, **Folder**, **Preference**)
 - The photos are sorted according to the newly selected sorting standard.
- 5 Press the ▼ button to move to the File List Section. Press the ▶ (Play)/**ENTER** button to start the Slide Show in the order you selected.
 - To move to the previous/next group, press the ▲ (REW) or ▼ (FF) button.
 - Photo information is automatically set. The colour information extracted from a photo file may be different from your expectations. You can change the colour and preference.
 - PTP does not support folder sort mode.



Option	Description
Basic View	Shows the folders on the USB memory device. If you select a folder and press the ENTER button, only the photo files contained in the selected folder are displayed. <ul style="list-style-type: none"> ■ When sorted according to the Basic View, you cannot set Favourites files.
Timeline	It sorts and shows photos by date. It sorts by year and month from the earliest photo.
Colour	Sorts photos by colour. You can change the photo colour information. <ul style="list-style-type: none"> ■ You should set the Use Colour View to on in the Setup menu before sorting photos by colour.
Folder	It Sorts photos by folder. If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	It Sorts photos by preference (Favourites). You can change the photo preferences. <ul style="list-style-type: none"> ■ Changing the Favourites Settings. Select the desired photo in the Photo list, then press the Green button repeatedly until the desired setting appears. ■ Up to 3 stars can be selected. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

Photo List Option Menu

- 1** Press the **MEDIA.P** button.
- 2** Press the **◀** or **▶** button to select **Photo**, then press the **ENTER**  button.
- 3** Press the **◀** or **▶** button to select the desired photo file.
 - Selecting Multiple Photos
 - Press the **◀** or **▶** button to select the desired photo file.
Then press the Yellow button.
 - Repeat the above operation to select multiple photo files.
 - The mark  appears to the selected photo file.
- 4** Press the **TOOLS** button.
 - The option menu changes according to the current status.

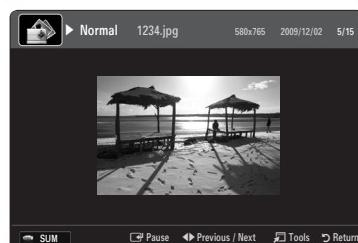
Option	Description
Slide Show	Using this menu, you can play a Slideshow using the photo files on the USB memory device.
Play Current Group	Using this menu, you can play a Slideshow using only the photo files in the currently selected sorting group.
Change Group Info (When the Sort key is the Colour)	You can change a selected photo file's (or group of files) colour information in order to move it from one colour group to another. <ul style="list-style-type: none"> ■ This does not change the actual colour of the photo. ■ The group information of the current file is updated and the photos are moved to the new colour group. ■ To change the information of multiple files, select the files you want by pressing the Yellow button.
Deselect All (When at least one file is selected)	You can deselect all files. <ul style="list-style-type: none"> ■ The  mark indicating the corresponding file is selected is hidden.
Information	The photo file information including the name, the size, the resolution, the date modified and the path is displayed. <ul style="list-style-type: none"> ■ You can view the information of photo files during a Slideshow using the same procedures.
Remove Safely	You can remove the device safely from the TV.



Viewing a Photo or Slide Show

Viewing a Slide Show

- 1** Press the ▼ button to select the File List Section.
- 2** Press the **TOOLS** button.
- 3** Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER** button.
 - All files in the File List Section will be used for the Slide Show.
 - During the slide show, files are displayed in order from the currently shown file.
 - The Slide Show progresses in the order sorted in the File List Section.
 - Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.
 - While a photo list is displayed, press the ▶(Play)/**ENTER** button on the remote control to start slide show.



Slideshow Control Buttons

Button	Operations
ENTER	Play/Pause the Slide Show.
▶	Play the Slide Show.
⏸	Pause the Slide Show.
⏹	Exit Slide Show and return to the photo list.
◀/▶	Change the Slideshow playing speed.
TOOLS	Run various functions from the Photo menus.

Playing Current Group

- 1** Press the ▲ button to move to the Sort key Section.
- 2** Press the ◀ or ▶ button to select a sorting standard.
- 3** Press the ▼ button to move to the Group List Section.
- 4** Select a group using the ◀ and ▶ buttons.
- 5** Press the ▶ (Play) button. A slideshow begins with the files of the selected group.



Alternatively

- 1** Select a Sort key and then in the File List Section, select the photos contained in the desired group.
 - To move to the previous/next group, press the ◀ (REW) or ▶ (FF) button.
- 2** Press the **TOOLS** button.
- 3** Press the ▲ or ▼ button to select **Play Current group**, then press the **ENTER** button.
 - Only the photos in the sorting group including the selected files will be used for the Slide Show.

To perform a Slide Show with only the selected Files

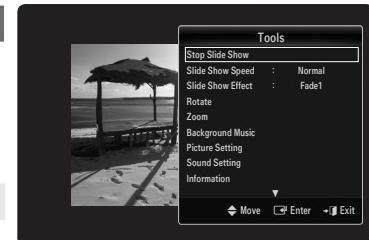
- 1** Press the ▼ button to select the File List Section.
- 2** Press the ◀ or ▶ button to select the desired photo in the File List Section.
- 3** Press the Yellow button.
- 4** Repeat the above operation to select multiple photos.
 - The ✓ mark appears to the left of the selected photo.
 - If you select one file, the Slide Show will not be performed.
 - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
- 5** Press the ▶ (Play)/**ENTER** button.
 - The selected files will be used for the Slide Show.

Alternatively

- 1 In the File List Section, press the Yellow buttons to select the desired photos.
- 2 Press the **TOOLS** button.
- 3 Press the **▲** or **▼** button to select **Slide Show**, then press the **ENTER** button.
 - The selected files will be used for the Slide Show.

Slide Show Option Menu

- 1 During a slide show (or when viewing a photo), press the **TOOLS** button to set the option.
- 2 Press the **▲** or **▼** button to select the desired option, then press the **ENTER** button.



Option	Description
Stop Slide Show / Start Slide Show	You can start or stop a Slideshow.
Slide Show Speed	You can select the slide show speed. <ul style="list-style-type: none"> ■ This function is available only during a slide show. ■ You can also change the speed of the Slide Show by pressing the ◀ (REW) or ▶ (FF) button during the Slide Show.
Slide Show Effect	You can select the screen transition effect used in the slideshow. <ul style="list-style-type: none"> ■ None / Fade1 / Fade2 / Blind / Spiral / Checker / Linear / Stairs / Wipe / Random This function is available only during a slide show.
Rotate	You can rotate photos saved on a USB memory device. <ul style="list-style-type: none"> ■ Whenever you press the ◀ button, it rotates by 270°, 180°, 90°, and 0°. ■ Whenever you press the ▶ button, it rotates by 90°, 180°, 270°, and 0°. ■ The rotated file is not saved.
Zoom	You can magnify photos saved on a USB memory device. (x1 → x2 → x4) <ul style="list-style-type: none"> ■ To move the enlarged photo image, press the ENTER button, then press the ▲/▼/◀/▶ buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work. ■ The enlarged file is not saved.
Background Music	You can select background music when watching a Slide Show. <ul style="list-style-type: none"> ■ Background Music <ul style="list-style-type: none"> - Off: Background music is not played. - On: When the background music is available, if you select On, the music is played back. ■ BGM Mode You can select a mode to use for the background music. <p>If you set BGM Mode to Mood, you can select a mood.</p> <ul style="list-style-type: none"> ■ Select Music File (0 File(s) Selected) Only the selected music file is set as the background music. <p>If you set BGM Mode to Selected File, you can select a music file.</p>
Picture Setting / Sound Setting	You can select the picture and sound settings.
Information	The photo file information is displayed.
Remove Safely	You can remove the device safely from the TV.



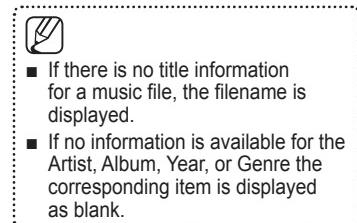
- To use this feature, there must be music and photo files stored on the USB device.
- Loading music files is needed to change BGM mode. Play music files in music category to load.

Sorting the Music List

You can sort music files in the Music List by a particular standard.

- 1** Press the **MEDIA.P** button.
- 2** Press the **◀** or **▶** button to select **Music**, then press the **ENTER** button.
- 3** Press the **▲** button to move to the Sort key Section.
- 4** Press the **◀** or **▶** button to select a sorting standard. (**Basic View**, **Title**, **Artist**, **Mood**, **Genre**, **Folder**, **Preference**)
 - The Music files are sorted according to the newly selected sorting standard.
- 5** Press the **▼** button to move to the File List Section. Press the **ENTER** button to start playing music in the order selected by the user.
 - To move to the previous/next group, press the **◀** (REW) or **▶** (FF) button.
 - Music information is automatically set. The mood information extracted from a music file may differ from the expectations of the user. You can change the mood and preference.

Option	Description
Basic View	Shows the folders of the USB memory device. If you select a folder and press the ENTER button, only the music files contained in the selected folder are displayed. ■ When sorted according to the Basic View, you cannot set Favourites files.
Title	Sorts the music titles in symbol/number/alphabet/special order, and shows the music file.
Artist	Sorts the music file by artist in symbol/number/alphabet/special order.
Mood	Sorts music files by the mood. You can change the music mood information.
Genre	Sorts music files by the genre.
Folder	Sorts music files by the folder. If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	Sorts music files by preference (Favourites). You can change the music files preferences. <ul style="list-style-type: none"> ■ Changing the Favourites Setting Select the desired music file in the Music list, then press the Green button repeatedly until the desired setting appears. ■ Up to 3 stars can be selected. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.



Music List Option Menu

- 1** Press the **MEDIA.P** button.
- 2** Press the **◀** or **▶** button to select **Music**, then press the **ENTER** button.
- 3** Press the **◀** or **▶** button to select the desired Music file.
 - Selecting Multiple Music Files
 - Press the **◀** or **▶** button to select the desired music file. Then press the Yellow button.
 - Repeat the above operation to select multiple music files.
 - The mark **✓** appears to the selected music file.
- 4** Press the **TOOLS** button.
 - The option menu changes according to the current status.



Option	Description
Play Current Group	Using this menu, you can only play music files in the currently selected sorting group.
Change Group Info (When the Sort key is Mood)	You can change the mood information of music files. The group information of the current file is updated and the file is moved to the new group. <ul style="list-style-type: none"> ■ To change the information of multiple files, select files by pressing the Yellow button.
Deselect All (When at least one file is selected)	You can deselect all files. <ul style="list-style-type: none"> ■ The <input checked="" type="checkbox"/> mark indicating the corresponding file is selected is hidden.
Information	The music file information including the name, the size, the date modified and the path is displayed. <ul style="list-style-type: none"> ■ You can view the music file information during a Play Current Group using the same procedures.
Remove Safely	You can remove the device safely from the TV.

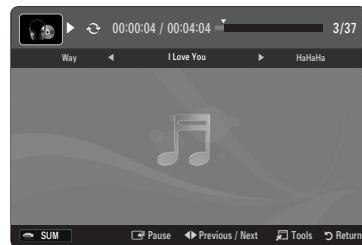


■ Press the **INFO** button to viewing the information.

Playing a Music

Playing a Music File

- 1 Press the **▼** button to select the File List Section.
- 2 Press the **◀** or **▶** button to select a music file to be played.
- 3 Press the **[▶] (Play)/ENTER ↴** button.
 - This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
 - The selected file is displayed at the top with its playing time.
 - To adjust the music volume, press the volume button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
 - If the sound is odd when playing MP3 files, adjust the **Equalizer** and **SRS TruSurround HD** in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)
 - The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
 - **[◀]** (REW) or **[▶]** (FF) buttons do not function during play.



Music Play Control Buttons

Button	Operations
ENTER ↴	Play/Pause the music file.
[▶]	Play the music file
[II]	Pause the music file
[■]	Exit play mode and return to the music list.
TOOLS	Run various functions from the Music menus.

Music Function Information Icon

	When all music files in the folder (or the selected file) are repeated. Repeat Mode is On .
	When all music files in the folder (or the selected file) are played once. Repeat Mode is Off .

Playing the Music Group

- 1** Press the ▲ button to move to the Sort key Section.
- 2** Press the ◀ or ▶ button to select a sorting standard.
- 3** Press the ▼ or **ENTER** button to move to the Group List Section.
- 4** Press the ▶ (Play) button. The files of the selected group will start playing.

Alternatively

- 1** Select a sort key and then in the File List Section, select the files contained in the desired group.
 - To move to the previous/next group, press the ◀◀ (REW) or ▶▶ (FF) button.
- 2** Press the **TOOLS** button.
- 3** Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
 - The music files in the sorting group including the selected file are played.

Playing the selected Music Files

- 1** Press the ▼ button to select the File List Section.
- 2** Press the ◀ or ▶ button to select the desired music file.
- 3** Press the Yellow button.
- 4** Repeat the above operation to select multiple music files.
 - The ✓ appears to the left of the selected music file.
 - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
- 5** Press the ▶ (Play)/**ENTER** button.
 - The selected files will be played.

Music Play Option Menu

Option	Description
Repeat Mode	You can play music files repeatedly.
Picture Setting / Sound Setting	You can configure the picture and sound settings.
Information	The music file information is displayed.
Remove Safely	You can remove the device safely from the TV.



Sorting the Movie List

You can sort movies in the Movie List by a particular standard.

- 1** Press the **MEDIA.P** button.
- 2** Press the **◀** or **▶** button to select **Movie**, then press the **ENTER**  button.
- 3** Press the **▲** button to move to the Sort key Section.
- 4** Press the **◀** or **▶** button to select a sorting standard. (**Basic View**, **Timeline**, **Title**, **Folder**, **Preference**)
 - The movie files are sorted according to the newly selected sorting standard.
- 5** Press the **[]** (Play)/**ENTER**  button to play the movie in the order selected.
 - Movie information is automatically set. You can change the preference.



Option	Description
Basic View	Shows the folders of the USB memory device. If you select a folder and press the ENTER  button, only the movie files contained in the selected folder are displayed. ■ When sorted according to the Basic View , you cannot set Favourites files.
Timeline	Sorts movies by date. It sorts by year and month from the earliest movie.
Title	Sorts and displays the movie titles in symbol/number/alphabet/special order.
Folder	If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the Root folder is shown first and the others are shown in alphabetical order by name.
Preference	Sorts movies by preference. (Favourites) You can change the movie preferences. <ul style="list-style-type: none"> ■ Changing the Favourites Setting Select the desired movie file in the movie list, then press the Green button repeatedly until the desired setting appears. ■ Up to 3 stars can be selected. ■ The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

Movie List Option Menu

- 1** Press the **MEDIA.P** button.
- 2** Press the **◀** or **▶** button to select **Movie**, then press the **ENTER**  button.
- 3** Press the **◀** or **▶** button to select the desired Movie file.
 - Selecting Multiple Movie Files
 - Press the **◀** or **▶** button to select the desired movie file.
Then press the Yellow button.
 - Repeat the above operation to select multiple movie files.
 - The mark **✓** appears to the selected movie file.
- 4** Press the **TOOLS** button.
 - The option menu changes according to the current status.



Option	Description
Play Current Group	Using this menu, you can only play movie files in the currently selected sorting group.
Deselect All (When at least one file is selected)	You can deselect all files. ■ The <input checked="" type="checkbox"/> mark indicating the corresponding file is selected is hidden.
Information	The movie file information including the name, the size, the date modified and the path is displayed.
Remove Safely	You can remove the device safely from the TV.



Playing a Movie File

Playing a movie file

1
2
3

Press the ▼ button to select the File List Section.

Pressing the ◀ or ▶ button to select a movie file to be played.

Press the ▶ (Play)/ENTER ↴ button.

- The selected file is played.
- The selected file is displayed at the top with its playing time.
- The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
- You can watch exciting gaming multimedia files, but the gaming function is not supported.
- Movie doesn't support subtitles. (for example, not support smi, srt and sub files, etc and not support subtitles included in movie files)



Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.txt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

Supported Video Formats

File Extension	Container	Video Decoder	Audio codec
*.avi	AVI	Divx 3.11	MP3, AC3, LPCM, ADPCM (MULAW ALAW)
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
*.mkv	MKV	Motion JPEG	
		Divx 3.11	
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	

File Extension	Container	Video Decoder	Audio codec
*.asf	ASF	Divx 3.11	
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	WMA, MP3, AC3, LPCM, ADPCM, (MULAW ALAW), AAC
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
*.wmv (VC1)		Window Media Video v9	
*.mp4	MP4 (SMP4)	H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	ADPCM, (HE)-AAC, mp3
		MPEG-4 ASP	
		XVID	
*.3gp	3GPP	H.264 BP	
		H.264 MP	
		H.264 HP	ADPCM, (HE)-AAC
		MPEG-4 SP	
		MPEG-4 ASP	
*.vro (ps)	VRO / VOB	MPEG2	
		MPEG1	AC3, MPEG, LPCM
*.mpg		MPEG1 (Programme Stream)	
*.mpeg (ps)		MPEG2 (Programme Stream)	AC3, MPEG, LPCM
others (ts)		MPEG2 (Transport Stream)	
		H.264 (Transport Stream)	AAC, HE-AAC, MP3, DD+
		VC1 (Transport Stream)	

Video Play Control Buttons

Button	Operations
ENTER	Play/Pause the movie file
	Play the movie file
	Pause the movie file
TOOLS	Run various functions from the Movie menus.
	Exit play mode and return to the movie list.
	Skip forwards or backwards through the movie file.
	Move to the first/last of the file.
	Play the file at double speed. This function may not be supported depending on the codec.

Playing the movie group

- 1** Press the button to move to the Sort key Section.
- 2** Press the or button to select a sorting standard.
- 3** Press the or **ENTER** button to move to the Group List Section.
- 4** Press the (Play) button. Only the files of the selected group will start playing.

Alternatively

- 1** Select a Sort key and then in the File List Section, select the files contained in the desired group.
 - To move to the previous/next group, press the **◀ (REW)** or **▶ (FF)** button.
- 2** Press the **TOOLS** button.
- 3** Press the **▲** or **▼** button to select **Play Current Group**, then press the **ENTER ↴** button.
 - The movie files in the sorting group including the selected file are played.

Playing the selected Movie Files

- 1** Press the **▼** button to select the File List Section.
- 2** Press the **◀** or **▶** button to select the desired music file.
- 3** Press the Yellow button.
 - The **✓** mark appears to the left of the selected movie file.
 - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
- 4** Repeat the above operation to select multiple movie files.
- 5** Press the **▶ (Play)/ENTER ↴** button.
 - Only the selected file is played.

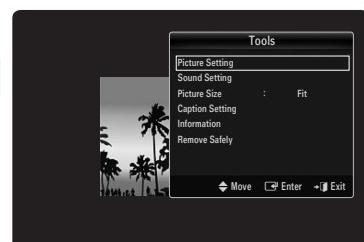
Playing Movie continuously (Resume Play)

If you exit the playing movie function, the movie can be played later from the point where it was stopped.

- 1** Select the movie file you want to play continuously by pressing the **◀** or **▶** button to select it from the File List Section.
- 2** Press the **▶ (Play)/ENTER ↴** button.
- 3** Select **Play Continuously (Resume Play)** by pressing the Blue button.
 - The Movie will begin to play from where it was stopped.
 - If **Cont. Movie Play Help** function is set **On** in the **Setup** menu, a pop-up message will appear when you resume play a movie file.

Movie Play Option Menu

Option	Description
Picture Setting / Sound Setting	You can configure the picture and sound settings.
Picture Size	<ul style="list-style-type: none"> ■ Fit Play video at the TV screen size. ■ Original Play video at the original size.



Option	Description
Caption Setting	You can set the captions for the movie. <ul style="list-style-type: none"> ■ Caption You can turn the captions for the movie on or off. ■ Caption Language You can set the caption language. ■ Caption Size You can change the font size of the captions. ■ Caption Sync You can adjust the caption sync. ■ Caption Sync Reset You can reset the adjusted caption sync.
Information	The movie file information is displayed.
Remove Safely	You can remove the device safely from the TV.

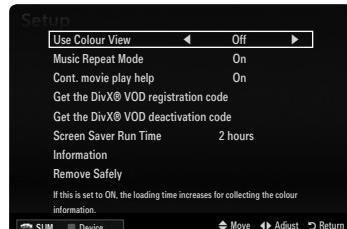
Using the Setup Menu

Setup displays the user settings of the **Media Play** menu.

- 1 Press the **MEDIA.P** button.
- 2 Press the **◀** or **▶** button to select **Setup**, then press the **ENTER**  button.
- 3 Press the **▲** or **▼** button to select the desired option.
- 4 Press the **◀** or **▶** button to select the option, then press the **ENTER**  button.
 - To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.



Option	Description
Use Colour View	You can select sorting photos by colour. If this option is set to On, the loading time may be increased to collect colour information from the photos.
Music Repeat Mode	Select to repeatedly play music files.
Cont. movie play help	Select to display the help pop-up message for continuous movie playback.
Get the DivX® VOD registration code	Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file. If you play the VOD registration using Media Play, the registration is completed. <ul style="list-style-type: none"> ■ For more information on DivX® VOD, visit www.DivX.com.
Get the DivX® VOD deactivation code	When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
Screen Saver Run Time	Select to set the waiting time before the screen saver appears.
Information	Select to viewing the information of the connected device.
Remove Safely	You can remove the device safely from the TV.



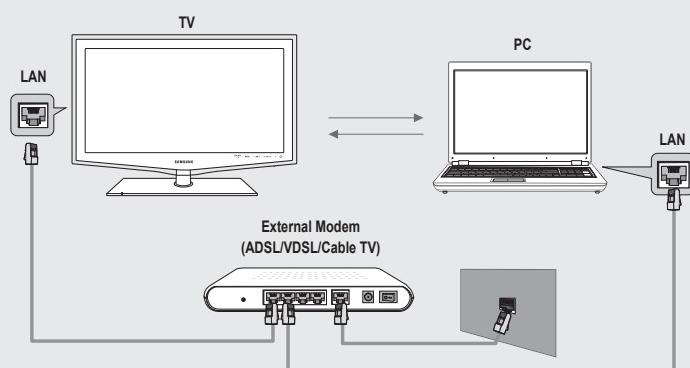
Media Play-DLNA

Setting the DLNA Network

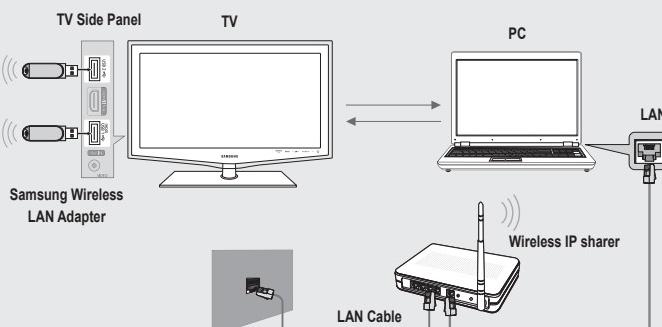
DLNA allows you to watch pictures, musics and videos saved on your PC or on your TV through a network connection in Media Play mode. This removes the need to copy them to a USB storage device and then connect the device to your TV. To use DLNA, the TV must be connected to the network and the DLNA application must be installed on your PC.

Network Connection Diagram

Network Connection Diagram-Cable



Network Connection Diagram-Wireless



- 1 For more information on how to configure your network, refer to pages 36~38.
 - You are recommended to locate both TV and PC in same subnet. The first 3 parts of the subnet address of the TV and the PC IP addresses should be the same and only the last part (the host address) should be changed. (e.g. IP Address: 123.456.789.**)
- 2 Connect the PC to which the **Samsung PC Share Manager** programme will be installed and the external modem using a LAN cable.
 - You can connect the TV to the PC directly without connecting it through a Sharer (Router).

Installing the DLNA Application

To play content on the PC on the TV, you have to first install the application. To use the DLNA function smoothly, use the programme in the CD-ROM supplied with the TV or use the Samsung PC Share Manager programme corresponding to the TV model that can be downloaded from the Samsung web site.

System Requirements

- 1** Insert the Programme CD supplied with this TV into your PC.
- 2** 30MB of free hard disk space is needed for the programme installation.
 - If you share files, up to 30MB of hard disk drive space is required for each 100 files.
 - If you cancel file sharing, the hard disk drive space used for the thumbnail information is also freed.

Supported Formats

Image: JPEG/ Audio: MP3/ Video: AVI, MKV, ASF, MP4, 3GPP, PS, TS container.
For detailed supported video formats, refer to pages 53~54.

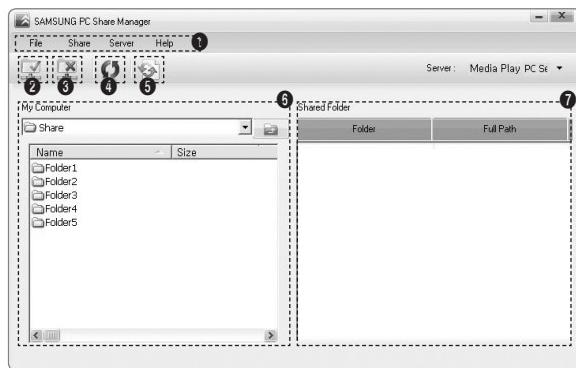
Install the Application



- 1** Run the Setup.exe file on the Programme CD supplied with the product.
 - Alternatively, you can download the file from www.samsung.com.
- 2** Install the SAMSUNG PC Share Manager as shown in the figures.
- 3** When the installation is complete, the PC Share Manager icon appears on your Desktop.
 - Double-click the icon to run the programme.

Using the DLNA Application

The Programme Screen Layout



- 1 Menus: The following application menus are provided : **File**, **Share**, **Server**, and **Help**.
- 2 Click to share the selected PC server folder.
- 3 Click to cancel sharing.
- 4 Click to refresh the PC folder and files.
- 5 Click to synchronize the share status.
- 6 The folders and files of the PC to be shared are listed.
- 7 Folders shared by the user are listed.

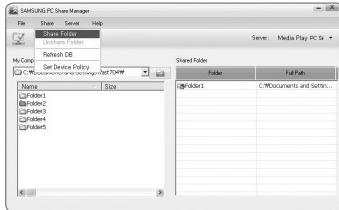
Option	Description
File	<p>■ Property Shows information on the selected file or folder.</p> <ul style="list-style-type: none"> - Method 1: Select a file or folder and select the File menu and then select the Property sub-menu. - Method 2: Select a file or folder, right-click over the selected file or folder and then select Property from the pop-up menu. <p><Method 1></p> <p><Method 2></p> <p>■ Exit Exits the DLNA application. If you select Exit without applying the changes after changing the shared status, a message will appear asking if you want to apply the changed settings to the PC. Select Yes to apply the changes and exit the application.</p>

Option**Description****Share****■ Sharing a Folder**

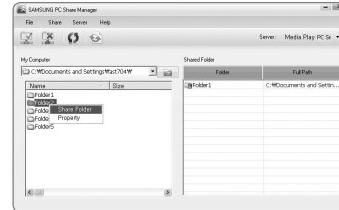
You can share a folder from your PC to the TV. The maximum number of folders that can be shared is 32. Your PC will operate as a server to the TV.

- Method 1: Select a folder in **My Computer**, select the **Share** menu and then select the **Share Folder** sub-menu.
- Method 2: Select a folder in **My Computer**, right-click over the selected folder and then select **Share Folder** from the pop-up menu.
- Method 3: Locate the mouse pointer over a folder in the **My Computer** folder list in the left pane and drag & drop the folder into the Shared Folders pane. If a message appears asking you to confirm the shared folder, select **Yes**.

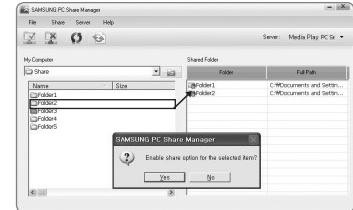
<Method 1>



<Method 2>



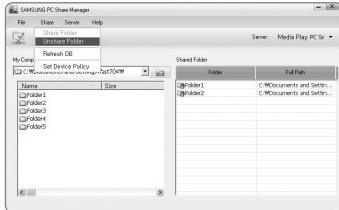
<Method 3>

**■ Cancelling a Shared Folder**

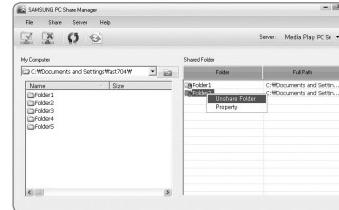
You can cancel a shared folder on your PC. Select a folder from the **Shared Folder** pane and select **Unshare Folder**.

- Method 1: Select a folder from the **Shared Folder** pane, select the **Share** menu and then select **Unshare Folder**.
- Method 2: Select a folder from the **Shared Folder** pane, right-click over the selected folder and then select **Unshare Folder** from the pop-up menu.
- Method 3: Locate the mouse pointer over a folder in the **Shared Folder** pane and drag&drop the folder into the **My Computer** pane. If a message appears asking you to confirm the cancellation, select **Yes**.

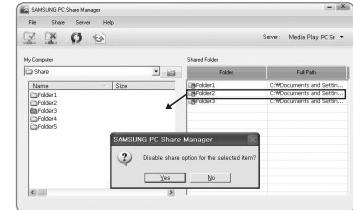
<Method 1>



<Method 2>



<Method 3>

**■ Applying the Current Settings**

Perform this when synchronization is necessary due to a new shared folder or cancelling a shared folder. The **Set Changed State** menu applies changes to shared folders to the data saved with the PC share programme.

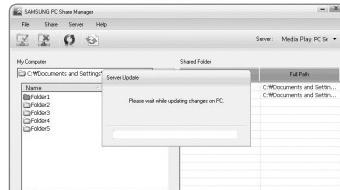
Since applying changes to the internal data is a time-consuming process, this function enables users to apply changes to the data only when required.

Until the **Set Changed State** menu is selected, the changed state of the shared folder is not applied to the server.

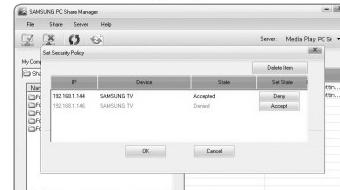
Changes to the shared folders are not applied to your PC until you select the **Set Changed State** menu.

- Method 1: Select the **Share** menu and select the **Refresh DB** sub-menu.
- Method 2: Click the **Set Changed State** icon.

<Method 1>



<Method 2>



Option	Description
Share	<p>■ Setting the Access Permission To enable the TV to find your PC, the TV must be set to Set Device Policy in the Access Permission Settings window. In addition, the PC server and the TV must be on the same subnet.</p> <ul style="list-style-type: none"> - Method: Select the Share menu and select Set Device Policy. Rejected items are represented in gray. You can change the access permissions by using the Allow Accept / Deny button. <p>To delete an item, select the item and select Delete Item.</p>
Server	<p>■ Server You can run or stop using your PC as a server.</p> <p>■ Run DLNA Digital Media Server when Windows Starts You can determine whether to start the PC server automatically when Windows starts.</p> <p>■ Change server name You can rename the PC server. Enter a new name and click OK. The new name will appear at the top right of the window and will appear on the TV.</p>
Help	<p>■ Version The programme version information message box appears.</p>

Using the DLNA Function

Using the DLNA Menu

DLNA (Digital Living Network Alliance) enables content saved on a DLNA server (usually your PC) connected to your TV or over a network to be played. Media Play enables playing content saved on a USB memory device connected to the TV, while DLNA enables playing content saved on a DLNA server (your PC) connected to your TV or over the network. The procedures to use the content are the same as those for **Media Play (USB & DLNA)**.

- If you install the PC share manager programme supplied with the TV onto a PC, you can have the PC perform the role of a DLNA server over the network.
- For the detailed procedures on using the DLNA menu, refer page 42~55.

1 Press the **MEDIA.P** button on the remote control to display the **DLNA** menu.

2 Press the **◀** or **▶** button to select an icon (**Photo, Music, Movie, Setup**), then press the **ENTER**  button.

- To exit **DLNA** mode, press the **MEDIA.P** button on the remote control.
- DLNA does not support the following functions.
 - The Background Music and Background Music Setting functions.
 - Sorting files by preference in the Photo, Music, and Movie folders.
 - The Change Group Info function.
 - The Copy / Delete function.
 - The Remove Safely function.
 - The REW/FF (**[◀]/[▶]**) key functions while a movie is playing.
 - Function to watch continuously when playing movie.
 - Playing Movie Continuously (Resume Play) function.
- The Skip function may not work with some container such as asf and mkv.
- The Divx DRM, Multi-audio, embedded caption does not supported.
- Samsung PC Share manager should be permitted by the firewall programme on your PC.
- The Skip (**◀/▶** keys) or Pause function may not work while a movie is playing for the DLNA of other manufacturers, depending on the corresponding content information.
- The playing time may not be displayed while a movie is playing.

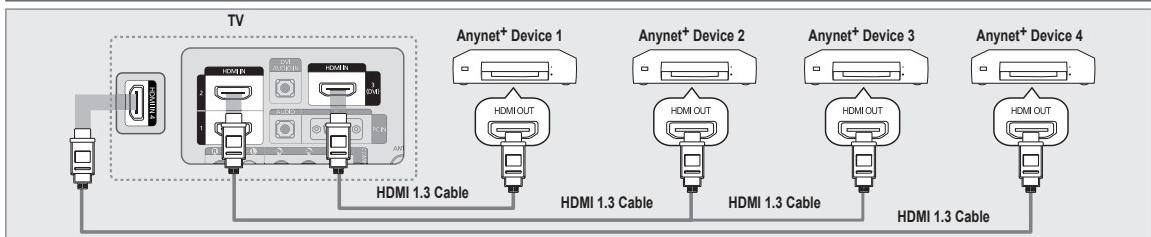
Anynet+

Connecting Anynet+ Devices

What is Anynet+?

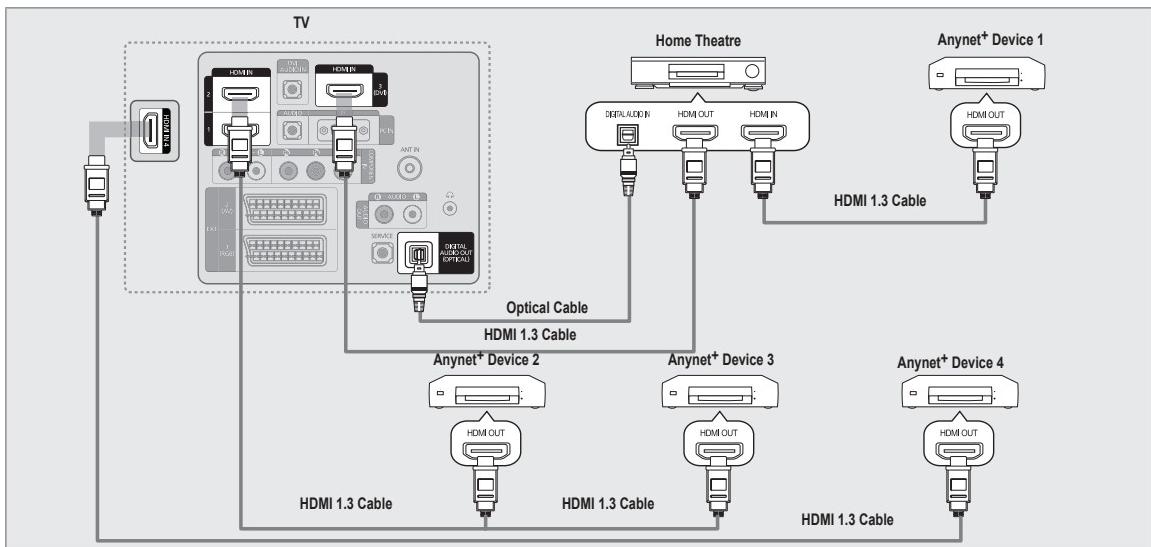
Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to a TV



Connect the **HDMI IN (1, 2, 3 (DVI) or 4)** jack on the TV and the **HDMI OUT** jack of the corresponding Anynet+ device using an HDMI cable.

To connect to Home Theatre

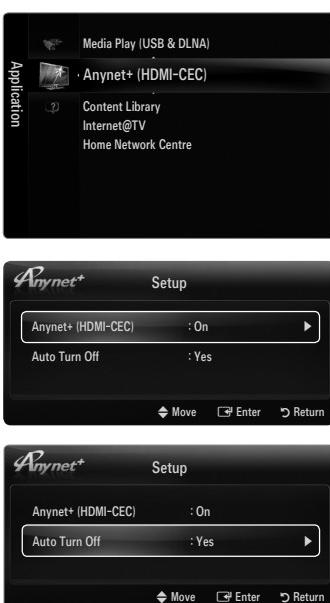


1 Connect the **HDMI IN (1, 2, 3 (DVI) or 4)** jack on the TV and the **HDMI OUT** jack of the corresponding Anynet+ device using an HDMI cable.

2 Connect the **HDMI IN** jack of the home theatre and the **HDMI OUT** jack of the corresponding Anynet+ device using an HDMI cable.

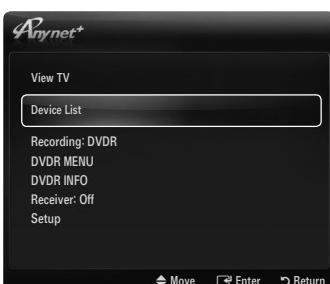
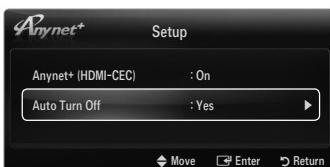
- Connect the Optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** jack on your TV and the Digital Audio Input on the Home Theatre.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theatre's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the **DIGITAL AUDIO OUT (OPTICAL)** jack on the DVD player or Cable / Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theatre, not the TV.
- Connect only one Home Theatre.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

Option	Description
Setup	<p>■ Anynet+ (HDMI-CEC) To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On. When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.</p> <p>■ Auto Turn Off Setting an Anynet+ Device to turn Off automatically when the TV is turned Off.</p> <ul style="list-style-type: none"> - The active source on the TV remote must be set to TV to use the Anynet+ function. - If you set Auto Turn Off to Yes, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off. 

Switching between Anynet+ Devices

- 1 Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
- 2 Press the **▲** or **▼** button to select **Device List**, then press the **ENTER** button.
 - Anynet+ devices connected to the TV are listed. If you cannot find a device you want, press the red button to scan for devices.
- 3 Press the **▲** or **▼** button to select a particular device and press the **ENTER** button. It is switched to the selected device.
 - Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu, the Device List menu appears.
 - Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
 - The time required to scan for devices is determined by the number of connected devices.
 - When the device scan is complete, the number of devices found are not displayed.
 - Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV may not always be automatically displayed in the device list. Press the Red button to search for the connected device.
 - If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.



Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Option	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) MENU	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) INFO	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.



- If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◀/▶ ENTER buttons Colour buttons EXIT button
	After switching to the device, while playing a file	(Backward search) (Forward search) ■ (Stop) / ▶ (Play) ■ (Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	P ▼ / P ▲ button
Audio Device	When Receiver is activated	— + / MUTE button

- The Anynet+ function only works when the active source on the TV remote control is set to TV.
- The button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- The , operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a Samsung recorder.

- 1** Press the **TOOLS** button. Press the **ENTER**  button to select **Anynet+ (HDMI-CEC)**.
- 2** Press the **▲** or **▼** button to select **Recording** Immediately and press the **ENTER**  button. Recording begins.
 - When there is more than one recording device. When multiple recording devices are connected, the recording devices are listed. Press the **▲** or **▼** button to select a recording device and press the **ENTER**  button. Recording begins.
 - When the recording device is not displayed select **Device List** and press the Red button to search devices
- 3** Press the **EXIT** button to exit.
 - You can record the source streams by selecting **Recording: (device_name)**.
 - Pressing the  button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
 - Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.



Listening through a Receiver (Home Theatre)

You can listen to sound through a receiver instead of the TV speaker.

- 1** Press the **TOOLS** button. Press the **ENTER**  button to select **Anynet+ (HDMI-CEC)**.
- 2** Press the **▲** or **▼** button to select **Receiver**. Press the **◀** or **▶** button to select **On** or **Off**.
 - If your receiver supports audio only, it may not appear in the device list.
 - The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.
 - When the receiver (home theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theatre receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theatre receiver.
 - If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Speaker Select** may be set to **External Speaker** when you turn the TV on again.(refer to pages 28~29)
- 3** Press the **EXIT** button to exit.



Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	<ul style="list-style-type: none"> Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Connect only one receiver (home theatre). Check if the Anynet+ device power cord is properly connected. Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. Check whether the TV remote control is in TV mode. Check whether it is Anynet+ exclusive remote control. Anynet+ doesn't work in certain situations. (Searching channels, Operating Media Play, Plug & Play, etc.) When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	<ul style="list-style-type: none"> Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. Press the TV button on the TV remote control to switch to TV. Then press the TOOLS button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	<ul style="list-style-type: none"> Select View TV in the Anynet+ menu. Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices. Press P ▼/▲, PRE-CH, and FAV.CH to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message 'Connecting to Anynet+ device...' appears on the screen.	<ul style="list-style-type: none"> You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	<ul style="list-style-type: none"> You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	<ul style="list-style-type: none"> Check whether or not the device supports Anynet+ functions. Check whether or not the HDMI 1.3 cable is properly connected. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. Search Anynet+ devices again. You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	<ul style="list-style-type: none"> Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	<ul style="list-style-type: none"> Connect the optical cable between TV and the receiver.

Content Library

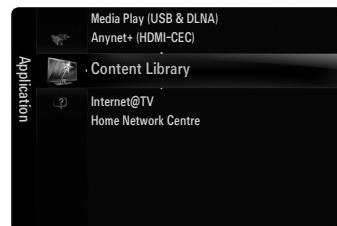
Using the Content Library

The Content Library allows you to enjoy various content on your TV.

You can use the default content stored in the TV memory or you can enjoy new content using a USB device.

Using the Content Library Menu

- 1** Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER**  button.
- 2** Press the **▲** or **▼** button to select **Content Library**, then press the **ENTER**  button.
 - The **Content Library** main menu is displayed.
- 3** Press the **◀** or **▶** button to select an icon (**Gallery**, **Cooking**, **Game**, **Children**, **Wellness**, **Content Management**), then press the **ENTER**  button.



Using the Remote Control Button in Content Library Menu

Button	Operations
▲/▼/◀/▶	Move the cursor and select an item.
ENTER 	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the Content Library main menu.
^ P V / FAV.CH / CH LIST	Stop Content Library mode and Returns to TV mode.
Colour button	Keys that provide functions are described on the corresponding page.
-- ▲ + / MUTE	You can control the volume of the played content.

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Using the Contents

You can use enjoy content stored in the TV memory.

- To return to **Content Library** main menu, press the **EXIT** button.

Option	Description
Gallery	<p>This function plays a Slideshow with high resolution images and background music and produces various atmospheres. Using the Gallery function of the TV, you can change your home atmosphere.</p> <ul style="list-style-type: none"> The copyrights of the Gallery contents and all issues related to them are reserved by TimeSpace, Inc.. Press the ENTER button to pause the Slideshow, and also press the ENTER button to resume the Slideshow. Press the INFO button to display information on the selected photo. (This is not displayed if the photo has no information.)
Cooking	<p>You can view various recipes and then easily follow them step by step. Enjoy these contents which will give you great ideas for meals.</p> <ul style="list-style-type: none"> The recipes introduced in the Cooking contents on the Samsung TV are based on recipes published by Anness Publishing. The copyrights of the Cooking contents and all issues related to them are reserved by Practical Pictures.
Game	<p>This category provides entertainment games for the whole family.</p> <ul style="list-style-type: none"> For the buttons used in the games, refer to the directions on the screen. Colour Buttons for Games <ul style="list-style-type: none"> Red: Press to move to the game home screen. Green: Press to pause the game. Yellow: Option Key. Blue: Press to exit the game
Children	<p>This is educational and interactive content that children can watch repeatedly.</p> <ul style="list-style-type: none"> The copyrights of the Children contents and issues related to them reserved by UpToTen.
Wellness	<p>This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family.</p> <ul style="list-style-type: none"> The Basic Stretches contents are automatically played so that you can easily follow the movements on the screen. To move to the previous or next operation, press the ◀ or ▶ button to view the required step. The selected item is displayed on the screen.



Using the Content Management

You can select multiple content items by selecting content items repeatedly and pressing the Yellow button.

Option	Description
Content Management	<ul style="list-style-type: none"> You can select multiple content items by selecting content items repeatedly and pressing the Yellow button.
My Contents	<p>You can check the content saved in the TV memory for each subitem of the Content Library.</p> <ul style="list-style-type: none"> Select a content item and press the ENTER button. You can play or delete the selected content item.
USB	<p>You can check the content saved on the USB device for each subitem of the Content Library.</p> <ul style="list-style-type: none"> Select a content item and press the ENTER button. You can play the selected content item. <ul style="list-style-type: none"> Content Library only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Playing a game using an external USB memory device will allow you to save your game (depending on the game). Take care as removing the USB memory device while saving data to the USB memory device may cause the data to be lost. Downloading New Contents New content other than the built-in content will be provided via the Samsung.com website free of charge. When you download the paid contents, you need UDN number to download contents. Check the UDN number before downloading a new content item. Downloading Content <ol style="list-style-type: none"> Visit the www.samsung.com website. Select a content item in the Contents Download page. Download the contents onto the USB memory device. Go to Content Library main menu by pressing CONTENT button or choosing Content Library (Menu → Application → Content Library). Plug the USB memory into USB port on the side of the TV. You can see the content sub item which you downloaded. Select a content item and press the enter button. You can play the selected content item.
Setup	<ul style="list-style-type: none"> Screen Saver Run Time: Select to set the waiting time before the screen saver appears. Save UDN: Saves the UDN number to a USB device.



Internet@TV

If you have some problems while using a widget service, please contact to content provider. In the widget, press the Green button and get information of contact or refer to help website for widget provider information.

Getting Started with Internet@TV

Internet@TV provides an integrated Internet and television experience powered by the Yahoo!® Widget Engine. You can monitor financial stocks, share photos with friends and family, and track news and weather all through the Internet@TV service on your television.

- If Network condition is unstable, this function may not work. Then, TV would be turned off automatically. Otherwise turn off the TV using power button.
- You may experience slow operation or hesitation when using this function due to network conditions.

When running Internet@TV for the first time, the basic settings proceed automatically.

- The first step is to set up your network. For more information on how to configure your network, refer to pages 36~38
- After your network is operational, the Internet@TV software guides you through a step-by-step setup wizard.

What is a Widget?

A TV Widget is a small web application that allows you to easily access your favourite site using the remote control. You can enjoy various types of information, such as the latest news, weather information, and stock information, etc. on your TV along with your friends or family members.

Some widgets may not be supported depending on the regulations of the corresponding country.

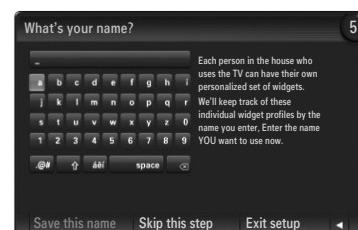
- Some widgets will only support limited services depending on the regulations of the corresponding country.
- The colour buttons may work differently depending on the widget.
- The operation may not be smooth depending on the network condition.
- The Snippet is a symbol of Widget.

What is a Snippet?

A snippet shows a part of the Widget contents such as weather and stock information that the user wants to view.

- The snippets are automatically updated in real time.
- It may take a few seconds to load the snippet.

- 1** Press the **MENU** button. Press the **▲** or **▼** button to select Application, then press the **ENTER**  button.
- 2** Press the **▲** or **▼** button to select **Internet@TV**, then press the **ENTER**  button.
 - **Internet@TV** starts.
- 3** The **General Disclaimer** is displayed on the screen. Select **I accept** or **I do not accept**.
 - For more information on the General Disclaimer, refer to page 40.
- 4** The 'welcome screen' is the starting point of the **Internet@TV** guided setup.
 - If you select **Exit Setup**, this step is resumed when you press the **INTERNET@** button.
 - Select **Let's get started!**
- 5** Choosing your location allows TV Widgets to use localized content.
 - Select your country from the list provided.
- 6** Accepting the Yahoo!® TV Widget Engine Privacy Policy is required to use Internet@TV.
 - Select **OK, I Accept**.
- 7** Accepting the Yahoo!® TV Widget System Terms of Service is required to use Internet@TV.
 - Select **OK, I Accept**.
- 8** Enter your name to setup your profile. Each profile has its own list of widgets. You can create a profile for each person who uses Internet@TV.
 - Enter your name and select **Save this name**.
 - For more information, refer to pages 72~73.



- 9** Internet@TV tests the network connection.
- If the test fails, configure your network again.
 - For more information, refer to pages 36~38.

- 10** The guided setup is complete. A tutorial on how to use Internet@TV is next.

- Select **Continue** to view the tutorial.
- Select **Exit setup** to start using Internet@TV now.
- To run the tutorial again, select **Profile Widget** → **System Setting** → **Repeat Tutorial**.

- 11** Press the **INTERNET@** button on the remote control to display the Internet@TV user interface.

Screen Display

Dock mode

- ① A welcome banner is shown with your profile name in the top right corner.
 - This banner disappears after a short delay.
- ② The banner highlights two remote control shortcuts.
 - If you press the blue button (**Viewport**) on your remote control, the display is toggled between 'Viewport mode' and 'Overlay mode'. In Viewport mode, the TV or video plays in a scaled-down area with graphics outside. In overlay mode, the graphics are displayed on top of the TV or video.
 - If you press the yellow button (**Edit Snippet**) on your remote control, a help window is displayed and the snippet with focus can be edited
- ③ Press the **INTERNET@** button on the remote control to begin.
 - The horizontal list at the bottom of your TV screen is called 'the dock'.
 - The items in the list are called 'snippets'.
 - A snippet is a shortcut which launches a TV Widget.
 - A TV Widget is an Internet application designed to run on your TV.
 - Move between snippets by pressing the **◀** or **▶** buttons on the remote control.
 - Focus is located in the left most region (highlighted in blue).
 - The dock slides snippets under that focal point.
 - Launch a TV Widget by pressing the **ENTER** button on the remote control when its snippet is in focus.
 - When you add snippets, they form a stack which you can navigate by pressing the **▲** or **▼** buttons.
 - Two special TV Widgets appear in the dock: the **Profile Widget** and the **Gallery Widget**. These cannot be deleted.
 - The dock will slide off screen after a timeout period.



Sidebar mode

- ① Focus on a snippet and press the **ENTER** button to launch the TV Widget sidebar. The TV Widget logo and Home icon are at the top of the sidebar.
- ② Current menu is displayed under the TV Widget logo.
 - To return to a previous screen, select it and press the **ENTER** button.
 - You can also press the **RETURN** button on the remote control.
- ③ Current selection is always highlighted in blue. The highlighted button has focus and is activated when you press the **ENTER** button.
- ④ When there is a lot of data, a page control is used.
 - Current page and total pages are displayed.
 - Move between pages by pressing **◀** or **▶** buttons.
- ⑤ The bottom toolbar includes colour buttons that correspond to the red, green, yellow and blue buttons on the remote control.
 - Red button: Close the widget.
 - Green button: Change the widget's setting.
 - Yellow button: Manage your snippets.
 - Blue button: Size video to fit, or make it full screen.



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Editing Snippets in the Dock

- 1** Edit a snippet by focusing on it in the dock and pressing the yellow button.
- 2** The snippet moves to the Second position and its tile slides up to show the following help text:
 - Delete (Red button): Remove this TV Widget.
Deleted widgets can be re-installed using the Widget Gallery.
 - Move (Blue button): Re-order the snippet. Press the **◀** or **▶** button to scroll. Press the yellow button to drop into the new position.
 - Done (Yellow button): Exit the Edit Snippet menu.

Using the Profile Widget

The Profile Widget configures your user profile.

You can set up multiple profiles, and each profile maintains its own list of widgets.

The **Switch Profile** menu allows you to switch to a different user profile.

- At least two profiles must be registered. If you want to add a profile, refer to page 72.



The Profile Settings menu allows you to customize and protect your profile.

- User profiles can be customized with a unique **Name** and an **Avatar** (a picture used to represent your profile).
- Your profile's **Name** and **Avatar** are displayed in the profile snippet in the dock.
- Profiles can be protected by **Create Profile PIN**.
- When setting the PIN for the first time, you can set a Security Question.



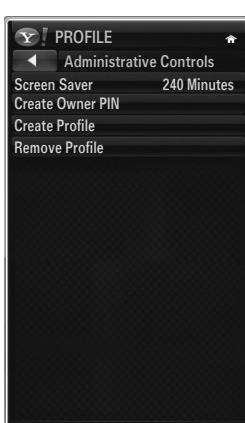
The Profile Settings menu can limit access to widgets.

- If you forget your **Profile PIN** you can answer a **Security Question** that is associated with your profile.
- A profile that has the Limit Profile indicator turned on will not allow new widgets to be installed.
- The Owner PIN must be set to use this function. To set the Owner PIN, refer to page 72.



The System Settings menu allows you to:

- Change your **Location** and set your **Zip Code** (US only) to tailor the content to your region.
- **Repeat the Tutorial** that was shown during guided setup.
- **Restore Factory Settings** to delete all widget configurations and information.

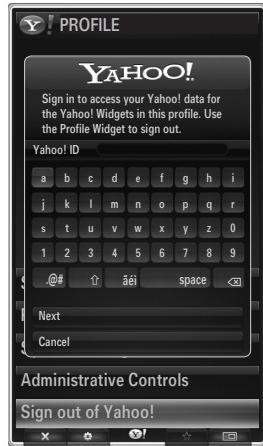


In the Administrative Controls menu you can:

- Set the **Screen Saver** timeout to avoid screen burn in.
- Create **Owner PIN** and set a **Security Question** to control other profiles.
- Create a new Profile which can be configured with a different set of widgets.
- Delete an existing profile.

From the Profile Widget you can Sign in to Yahoo!® using your Yahoo! ID.

- If you have a Yahoo! ID, you can access your personalized content using the Yahoo!® TV Widgets.
- All Yahoo!® TV Widgets that are installed are automatically signed-in with your profile's Yahoo! ID.
- If you have no Yahoo! account, visit www.yahoo.com and create an account.
- You may fail to log in with an ID created on the Yahoo website in a country that does not support Internet@TV.



About Profile widget

- Press the Green button.
- You can view a brief description of the **Profile Widget**, **Copyright Policy**, **Terms of Service**, and **Privacy Policy**.

Using the Yahoo!® Widget Gallery

Use the Yahoo!® Widget Gallery to add more widgets to your TV.

View available TV Widgets in the following categories:

- **Latest Widgets:** Displays recently updated widgets.
- **Yahoo!® Widgets:** Displays widgets provided by Yahoo!®.
- **Samsung Widgets:** Displays widgets provided by Samsung.
- **Categories:** Displays all widgets by category.
- To install a widget, navigate to the detail screen and select **Add Widget to My Profile** and press the **ENTER** button. The widget is installed and becomes available in the dock.



Widget Gallery Settings

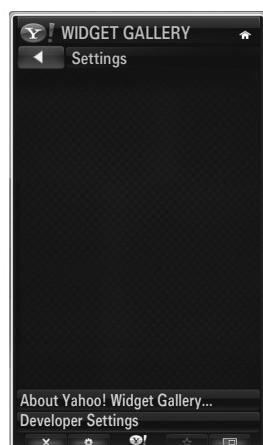
Press the Green button.

About Yahoo! Widget Gallery...

You can view brief information for the **Widget Gallery**, **Copyright Policy**, **Terms of Service**, and **Privacy Policy**.

In the Developer Settings menu You can make your own widget.

For more information on creating your own widget, visit our developer site at <http://connectedtv.yahoo.com/>



Using the Yahoo!® Weather Widget

The Yahoo!® Weather Widget provides updates on your local and favorite weather locations. This content dynamically changes with weather conditions.

- Press the green button on the remote control to display the Yahoo!® Weather Widget **Settings** menu.
- From the **Settings** menu you can add or remove a city for which you want to view weather information.

From the Settings menu:

- **Add New City** by entering the name of the city. Once the search results are displayed, select the city you want and press the **ENTER** button.
- **Delete City** by selecting the city you want to delete from the city list. Press the **ENTER** button and confirm the deletion.
- **Changing the Temperature Indication Mode**
You can change the temperature indication mode to **Imperial** or **Metric**. For example, **Imperial** will show temperatures in Fahrenheit and **Metric** in Celsius.



Create a Snippet for a Favorite City

- Select the city from the Yahoo!® Weather Widget's home page and view the detailed weather information.
- Press the Yellow button.
- Select the **Add Snippet** menu and press **ENTER** to add the city as a snippet.

Delete a Snippet for a City

- Launch the snippet.
- Press the Yellow button.
- Select the **Delete Snippet** menu and press **ENTER** to remove the snippet.

Using the Yahoo!® News Widget

The Yahoo!® News Widget provides the latest headline news for business, entertainment, politics, sports, top stories, and many other categories.

Select a category, select a headline within the category, and view a dynamically updated news summary.



Using the Yahoo!® Flickr Widget

The **Flickr** Widget can provide you access to your favorite photos from friends and family while

watching TV. Share your photos with your family on your big screen TV through a slideshow.

- Personalize the **Flickr** Widget by logging in with your Yahoo! ID.
- For detailed procedures on log in, refer to pages 72~73.
- For more information on **Flickr**, visit <http://www.flickr.com>.
- Your Photos shows photos you have registered with **Flickr** website.



To view Flickr photos in a slideshow:

- Select a thumbnail of a photo and press the **ENTER** button to view the photo's details.
- Select **Start Slideshow** and press the **ENTER** button.



To control the slideshow display:

- Press the **ENTER** button during a slideshow.
- The thumbnails of photos are displayed on the bottom of the screen.
 - When the slideshow control is displayed, you can Pause, Play and Stop the slideshow.
 - If you select the menu and press **ENTER**, you can view information for the selected photo.
- The **Your Sets** menu allows you to view photos you have classified in Flickr.
- The **Explore** menu allows you to explore photos featured by the Flickr website. You can view the photos updated daily.
- The **Mark as Favorite** or **Remove From Favorite** menu moves photos to your Favorite Photos set or removes photos from it.
- The **Favorite Photos** menu allows you to see the photos you have classified as favorites.
- The **Your Contacts** menu allows you to see updates from family and friends.

The Your Groups menu allows you to select your favorite groups from the Flickr website to share and enjoy photos with the Flickr community of users.

To configure the Yahoo!® Flickr Widget Settings press the Green button on the remote control.

- The **Time Per Slide** menu controls the speed of the slideshow.
- The **Repeat** menu will restart the slideshow at the beginning after the last photo is shown.

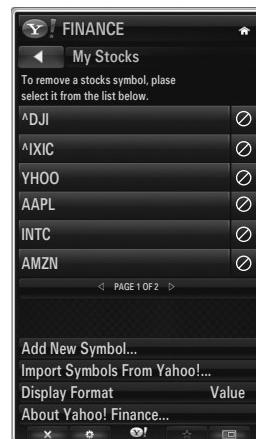
Using the Yahoo!® Finance Widget

View stock information and the latest stock news with the Yahoo!® Finance Widget.

Press the green button to set up your stocks.

Use the **Add New Symbol** menu to enter the name of a new stock.

- Select the stock you want to add from the search results and select the Add Symbol menu and press the **ENTER** button.
 - The selected stock is added to the **My Stocks** list.
- Use the **Import Symbols From Yahoo!®** menu to retrieve your Yahoo!® Finance portfolio.
 - The **Merge Symbols** menu merges the symbols in the Yahoo!® Finance Widget with the symbols from your portfolio.
 - The **Replace Symbols** menu deletes the symbols in the Yahoo!® Finance Widget and replaces them with the symbols from your portfolio.
- Use the **Display Format** menu to change the stock-price fluctuation transition to **Value** or **Percentage**.
- Create a snippet for a favorite stock.
 - Select the stock symbol from the Yahoo!® Finance Widget's home page and view the detailed finance information.
 - Press the Yellow button.
 - Select the **Add Snippet** menu and press **ENTER** to add the stock as a snippet.
- **Delete** a snippet
 - Launch the snippet from the dock
 - Press the yellow button.
 - Select the **Delete Snippet** menu and press **ENTER** to remove the snippet.



Troubleshooting for Internet@TV

Problem	Possible Solution
Some widget services do not work.	Check with that service provider. In the widget, press the green button and get contact information or refer to help website for widget service provider information. Refer to Help website page.
Some widget contents only have English. How can I change the language?	Widget content language may be different from widget user interface language. It depends on service provider.
After factory reset, Yahoo Widget service doesn't work and warning message is displayed.	After factory reset, turn off and on your TV. Then restart Internet@TV.
At the Flickr widget, I logged in my account. But, I can't view my picture.	Visit Yahoo Web site, and activate your Flickr account at your Yahoo! ID.
At the Profile widget, I did change location, but the previous setting still remains.	Turn off and on your TV. Then restart Internet@TV. Now, you can enjoy widget services supported in changed location.

Help Website

Country	Website
Austria	www.samsung.com → Produkte → Fernseher → medi@2.0 → Internet@TV
Belgium	www.samsung.com → Producten → televisies → medi@2.0 → Internet@TV
	www.samsung.com → Produits → téléviseurs → medi@2.0 → Internet@TV
Czech	www.samsung.com → Produkty → televizory → medi@2.0 → Internet@TV
Denmark	www.samsung.com → Produkter → stue & soveværelse → medi@2.0 → Internet@TV
Finland	www.samsung.com → Tuotteet → kodinelektroniikka → medi@2.0 → Internet@TV
France	www.samsung.com → Produits → télévisions → medi@2.0 → Internet@TV
Germany	www.samsung.com → Privatkunden → Fernseher → medi@2.0 → Internet@TV
Greece	www.samsung.com → Προϊόντα → τηλεοράσεις → medi@2.0 → Internet@TV
Hungary	www.samsung.com → Termékek → televíziók → medi@2.0 → Internet@TV
Ireland	www.samsung.com → Products → Television → medi@2.0 → Internet@TV
Italy	www.samsung.com → Prodotti → TV → medi@2.0 → Internet@TV
Netherlands	www.samsung.com → Producten → televisies → medi@2.0 → Internet@TV
Norway	www.samsung.com → Produkter → hverdagsrom & soverom → medi@2.0 → Internet@TV
Poland	www.samsung.com → Produkty → telewizory → medi@2.0 → Internet@TV
Portugal	www.samsung.com → Produtos para Consumidores → televisores → medi@2.0 → Internet@TV
Slovakia	www.samsung.com → Produkty → televízory → medi@2.0 → Internet@TV
Spain	www.samsung.com → Productos → televisores → medi@2.0 → Internet@TV
Sweden	www.samsung.com → Produkter → vardagsrum & sovrum → medi@2.0 → Internet@TV
Switzerland	www.samsung.com → Produits → télévisions → medi@2.0 → Internet@TV
	www.samsung.com → Produkte → Fernseher → medi@2.0 → Internet@TV
United Kingdom	www.samsung.com → Products → Television → medi@2.0 → Internet@TV
Turkey	www.samsung.com → Tüketici Ürünleri → televizyon → medi@2.0 → Internet@TV
Estonia	www.samsung.com → Klientidele → Televiisорid → medi@2.0 → Internet@TV
Latvia	www.samsung.com → Klientiem → Televizori → medi@2.0 → Internet@TV
Lithuania	www.samsung.com → Namams → Televizoriai → medi@2.0 → Internet@TV
Russia	www.samsung.com → Продукты → Телевизоры → medi@2.0 → Internet@TV
Ukraine	www.samsung.com → Потребительские продукты → телевизоры → medi@2.0 → Internet@TV

- Approaching step may be changed later on.
- It can be different links for special countries.

Home Network Centre

About the Home Network Centre

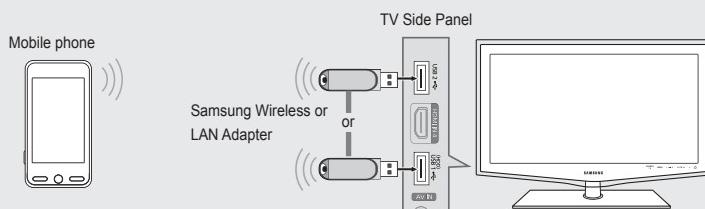
The **Home Network Centre** connects the TV and mobile phones through a network. You can view call arrivals, text message contents, and schedules set on the mobile phone on the TV using the **Home Network Centre**. In addition, you can play the media contents saved on the mobile phones such as videos, photos and music by controlling them onto the TV via the network.

- If the device supports **DLNA DMC (Digital Media Controller)** function, Home Network Centre function is available.
- The Samsung **SCH-i900** mobile phone supports the Home Network Centre. Other models will be added in the future.
- The mobile device may need additional software installation. For details, refer to each user's guide.

Connecting to the Home Network Centre

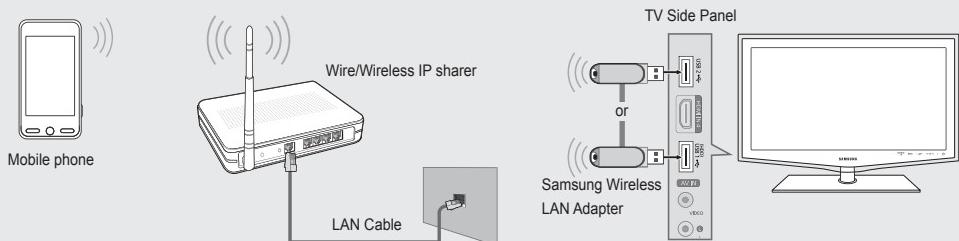
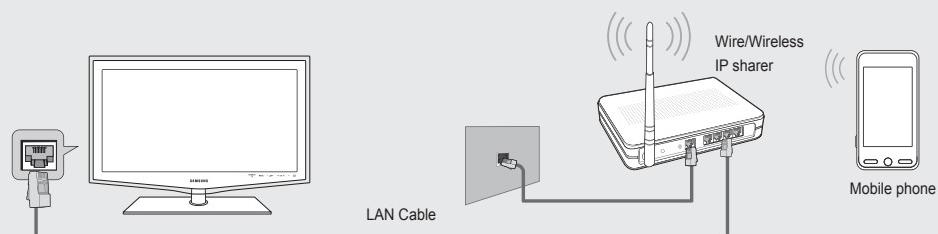
For more information about the network settings, refer to pages 36~38.

Connecting to a Wi-Fi Ad-hoc Network



- 1 Connect the 'Samsung Wireless LAN Adapter' to the USB1(HDD) or USB2 port of the TV.
- 2 For more information on how to configure Ad-hoc network, refer to page 38.
 - For information on configuring the mobile phone's network settings, refer to the mobile phone manual.
- 3 Set up the IP address, SSID and password for the mobile phone in the Ad-hoc Settings of the mobile phone using the Network Name (SSID) and Security Key (password) displayed on the TV.

Connecting through a Wire / Wireless IP Sharer

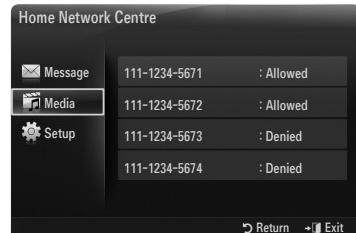


Connect the LAN port of the TV and the Wire/Wireless IP sharer using the LAN cable or connect the **USB1(HDD)** or **USB2** port of the TV and the 'Samsung Wireless LAN Adapter'.

- For the procedures to set up the wire/wireless sharer and the mobile phone, refer to the manual of the corresponding device.

Setting Up the Home Network Centre

Option	Description
Message	<p>Shows a list of mobile phones which have been set up with this TV to use the message function (the call arrivals, text message contents and schedules set on the mobile phone).</p> <ul style="list-style-type: none"> ■ Allowed Allows the mobile phone. ■ Denied Blocks the mobile phone. ■ Delete Deletes the mobile phone from the list. <ul style="list-style-type: none"> – This function just deletes the name from the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.
Media	<p>Shows a list of mobile phones which is available to control media contents (videos, photos, music) from the phone.</p> <ul style="list-style-type: none"> – Besides mobile phone, other mobile devices that support DLNA DMC are available <ul style="list-style-type: none"> ■ Allowed Allows the mobile phone. ■ Denied Blocks the mobile phone. ■ Delete Deletes the mobile phone from the list. <ul style="list-style-type: none"> – This function just deletes the corresponding name on the list. If the deleted mobile device turns on or tries to connect to the TV, it may be shown on the list.
Setup	<ul style="list-style-type: none"> ■ Message You can determine whether to use the message function (the call arrivals, text message contents, and schedules set on the mobile phone). ■ Media You can select whether to use the media function that plays the contents (videos, photos, music) from the mobile phone. ■ TV name You can set the TV name so as to find it easily on the mobile device. <ul style="list-style-type: none"> – If you selects User Input, you can type the TV name by OSK(On Screen Keyboard). You can set a name for your TV to be used in the Home Network.



Using the Message Function

Using this function, you can view the call arrivals, text message contents and schedules set on the mobile phone through the alarm window while watching TV.

- To disable this **Message** alarm window, set **Message** to **Off** in **Setup** of the **Home Network Centre**.
- The alarm window appears for 20 seconds. If no key is pressed or if **Cancel** is selected, it appears up to three times at 5 minute intervals.
- If **OK** is selected, or if **OK** is not selected while the message is displayed three times, the message will be deleted. The message is not deleted from the mobile phone.
- The simple alarm window can be displayed, while using some applications such as Media Play, Content Library, etc. In this case, to view the contents of the message, switch to TV viewing mode.
- When the message of an unknown mobile phone is displayed, select the mobile phone in the **Message** item of the **Home Network Centre** and select **Denied** to block the phone.



Message View

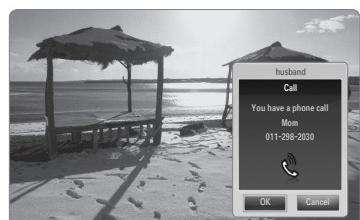
If a new text message (SMS) arrives while you are watching TV, the alarm window appears. If you click the **OK** button, the contents of the message are displayed.

- If you select the **OK** button, the contents of the message are displayed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
 - You can configure the viewing settings for the text message (SMS) contents on the mobile phone. For the procedures, refer to the mobile phone manual.
 - Some special characters may be displayed as blank or broken characters.

Call Arrival Alarm

If a call arrives while you are watching TV, the alarm window appears.

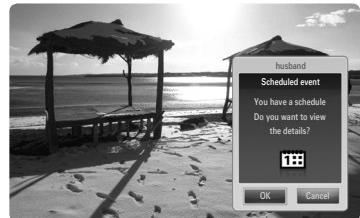
- If you select the **OK** button, the call arrival alarm is confirmed and the alarm window is closed.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.



Schedule Alarm

While you are watching TV, the alarm window appears to display the registered schedule.

- If you select the **OK** button, you can view the contents of the schedule registered on the mobile phone.
- If you select the **Cancel** button, the alarm window appears up to three times at 5 minute intervals.
 - You can configure the viewing settings for the schedule contents on the mobile phone. For the procedures, refer to the mobile phone manual.
 - Some special characters may be displayed as blank or broken characters.



Using the Media Function

An alarm window appears informing the user that the media contents (videos, photos, music) sent from the mobile phone will be displayed on the TV.

The contents are played automatically 3 seconds after the alarm window appears.

If you press the **RETURN** or **EXIT** button when the alarm window appears, the **Media Contents** are not played.

- To turn off the media contents transmission from the mobile phone, set **Media** to **Off** in **Setup** of the **Home Network Centre**.
- The contents may not be played on the TV depending on their resolution and format.



Media Play Control Buttons

Button	Operations
◀/▶	Move the cursor and select an item. While playing a movie file: Skip forwards or backwards through the movie file.
ENTER ▶	Pressing the ENTER ▶ button during play pauses the play. Pressing the ENTER ▶ button during pause resumes the play.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
INFO	Show file information.
EXIT	Stop Media Play mode and Returns to TV mode.

- The **ENTER** ▶ and **◀/▶** buttons may not work depending on the type of media content.
- Using the mobile device, you can control playing media. For details, refer to each user's guide.

Other Information

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the Teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

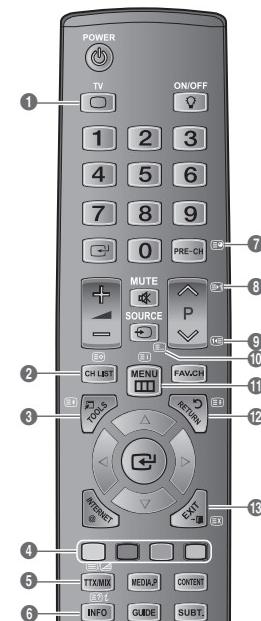
- For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

- ① (exit)
Exit from the Teletext display.
- ② (store)
Used to store the Teletext pages.
- ③ (size)
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.
- ④ Colour buttons (red/green/yellow/blue)
If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- ⑤ (Teletext on/mix)
Press to activate Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext with the current broadcasting screen.
- ⑥ (reveal)
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.
- ⑦ (sub-page)
Used to display the available sub-page.
- ⑧ (page up)
Used to display the next Teletext page.
- ⑨ (page down)
Used to display the previous Teletext page.
- ⑩ (mode)
Press to select the Teletext mode (LIST/ FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save Teletext page into list using the (store) button.
- ⑪ (index)
Used to display the index (contents) page at any time while you are viewing Teletext.
- ⑫ (hold)
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.
- ⑬ (cancel)
Used to display the broadcast when searching for a page.

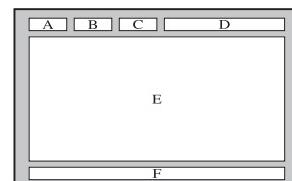
The Teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEEXT information.

- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - Entering the page number
 - Selecting a title in a list
 - Selecting a coloured heading (FASTEEXT system)
- Teletext level supported by the TV is version 2.5 which is capable of displaying additional graphics or text.
- Depending upon the transmission, blank side panels can occur when displaying Teletext.
- In these cases, additional graphics or text is not transmitted.
- Older TV's which do not support version 2.5 are not capable of displaying any additional graphics or text, regardless of the Teletext transmission.



- You can change Teletext pages by pressing the numeric buttons on the remote control.



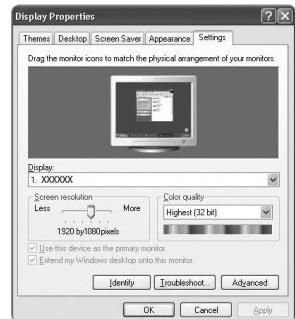
- Press the TV button to exit from the Teletext display.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

- 1** First, click on 'Control Panel' on the Windows start menu.
- 2** When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
- 3** When the control panel window appears, click on 'Display' and a display dialogbox will appear.
- 4** Navigate to the 'Settings' tab on the display dialog-box.
 - The correct size setting (resolution) - Optimum: 1920 X 1080 pixels.
 - If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.



Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed on the next page, the screen image has been optimized during manufacturing.

D-Sub and HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1152 x 864	53.783	59.959	81.750	-/+
	1280 x 720	44.772	59.855	74.500	-/+
	1280 x 720	56.456	74.777	95.750	-/+
	1280 x 960	75.231	74.857	130.000	-/+
	640 x 480	31.469	59.940	25.175	-/-
VESA DMT	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/-
	800 x 600	48.077	72.188	50.000	+/-
	800 x 600	46.875	75.000	49.500	+/-
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/-
	1152 x 864	67.500	75.000	108.000	+/-
	1280 x 1024	63.981	60.020	108.000	+/-
	1280 x 1024	79.976	75.025	135.000	+/-
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 800	62.795	74.934	106.500	-/+
	1280 x 960	60.000	60.000	108.000	+/-
VESA GTF	1360 x 768	47.712	60.015	85.500	+/-
	1440 x 900	55.935	59.887	106.500	-/+
	1440 x 900	70.635	74.984	136.750	-/+
	1680 x 1050	65.290	59.954	146.250	-/+
	1280 x 720	52.500	70.000	89.040	-/+
VESA DMT / DTV CEA	1280 x 1024	74.620	70.000	128.943	-/-
	1920 x 1080p	67.500	60.000	148.500	+/-

- When using an HDMI / DVI cable connection, you must use the **HDMI IN 3(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.
- Too long or low quality VGA cable can cause picture noise at high resolution modes 1920x1080.

Troubleshooting: Before Contacting Service Personnel

No sound or picture	<ul style="list-style-type: none"> Check that the mains lead has been connected to a wall socket. Check that you have pressed the button on your set. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	<ul style="list-style-type: none"> Check the volume. Check whether the MUTE button has been pressed on the remote control. Check the Speaker Select settings.
Screen is black and power indicator light blinks steadily	<ul style="list-style-type: none"> On your computer check; Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	<ul style="list-style-type: none"> Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none"> Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none"> Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.
'Check signal cable.' message is displayed	<ul style="list-style-type: none"> Check that the signal cable is firmly connected to the PC or video sources. Check that the PC or video sources are turned on.
On PC mode, 'Not Supported Mode.' message is displayed	<ul style="list-style-type: none"> Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen	<ul style="list-style-type: none"> If Screen Fit is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The 'Resets all settings to the default values.' message appears.	<ul style="list-style-type: none"> This appears when you press and hold the EXIT button for a while. The product settings are reset to the factory defaults.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	<ul style="list-style-type: none"> This is part of the product's design and is not a defect.

- This TFT LCD panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Specifications

Model Name	LE32B650, LE32B651 LE32B652, LE32B653	LE37B650, LE37B651 LE37B652, LE37B653
Screen Size (Diagonal)	32 inches	37 inches
Power Consumption Standby	<1W	<1W
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2	10W X 2
Dimensions (WxDxH) Without Stand With stand	803 X 77 X 545 mm 803 X 239 X 601 mm	927 X 78 X 608 mm 927 X 255 X 668 mm
Weight With Stand	14 kg	17 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)		-20° ~ 20°
Model Name	LE40B650, LE40B651 LE40B652, LE40B653	LE46B650, LE46B651 LE46B652, LE46B653
Screen Size (Diagonal)	40 inches	46 inches
Power Consumption Standby	<1W	<1W
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2	10W X 2
Dimensions (WxDxH) Without Stand With stand	995 X 79 X 650 mm 995 X 255 X 706 mm	1126 X 79 X 730 mm 1126 X 277 X 783 mm
Weight With Stand	19 kg	25 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)		-20° ~ 20°

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.

Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK). THERE ARE
NO USER SERVICEABLE PARTS INSIDE. REFER ALL
SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided. Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it unplug it immediately and contact an authorized dealer or service centre.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house). Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky shelf, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service centre.



**WARNING - TO PREVENT THE SPREAD OF FIRE,
KEEP CANDLES OR OTHER OPEN FLAMES
AWAY FROM THIS PRODUCT AT ALL TIMES.**

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows : The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

Warranty Card



UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

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Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0845 SAMSUNG (7267864) (UK & Northern Ireland)
Tel: 0818 717 100 (EIRE Only)
Fax: +44 0845 650 8080
Web : www.samsung.com

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 LGPL software: Glibc, ffmpeg, smpeg, libgphoto, libusb, SDL

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Version 3, 29 June 2007

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author> This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

[English]



Les bons gestes de mise au rebut de ce produit (Déchets d'équipements électriques et électroniques)

(Applicable dans les pays de l'Union Européenne et dans d'autres pays européens pratiquant le tri sélectif)

Ce symbole sur le produit, ses accessoires ou sa documentation indique que ni le produit, ni ses accessoires électroniques usagés (chargeur, casque audio, câble USB, etc.) ne peuvent être jetés avec les autres déchets ménagers. La mise au rebut incontrôlée des déchets présentant des risques environnementaux et de santé publique, veuillez séparer vos produits et accessoires usagés des autres déchets. Vous favoriserez ainsi le recyclage de la matière qui les compose dans le cadre d'un développement durable. Les particuliers sont invités à contacter le magasin leur ayant vendu le produit ou à se renseigner auprès des autorités locales pour connaître les procédures et les points de collecte de ces produits en vue de leur recyclage. Les entreprises et professionnels sont invités à contacter leurs fournisseurs et à consulter les conditions de leur contrat de vente. Ce produit et ses accessoires ne peuvent être jetés avec les autres déchets professionnels et commerciaux.

[Français]



Korrekte Entsorgung von Altgeräten (Elektroschrott)

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem)

Die Kennzeichnung auf dem Produkt, Zubehörteilen bzw. auf der dazugehörigen Dokumentation gibt an, dass das Produkt und Zubehörteile (z. B. Ladegerät, Kopfhörer, USB-Kabel) nach ihrer Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden dürfen. Entsorgen Sie dieses Gerät und Zubehörteile bitte getrennt von anderen Abfällen, um der Umwelt bzw. der menschlichen Gesundheit nicht durch unkontrollierte Müllbeseitigung zu schaden. Helfen Sie mit, das Altgerät und Zubehörteile fachgerecht zu entsorgen, um die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern. Private Nutzer wenden sich an den Händler, bei dem das Produkt gekauft wurde, oder kontaktieren die zuständigen Behörden, um Erfahrung zu bringen, wo Sie das Altgerät bzw. Zubehörteile für eine umweltfreundliche Entsorgung abgeben können. Gewerbliche Nutzer wenden sich an ihren Lieferanten und gehen nach den Bedingungen des Verkaufsvertrags vor. Dieses Produkt und elektronische Zubehörteile dürfen nicht zusammen mit anderem Gewerbemüll entsorgt werden.

[Deutsch]



Correcte verwijdering van dit product (elektrische & elektronische afvalapparatuur)

Dit merkteken op het product, de accessoires of het informatiemateriaal duidt erop dat het product en zijn elektronische accessoires (bv. lader, headset, USB-kabel) niet met ander huishoudelijk afval verwijderd mogen worden aan het einde van hun gebruiksduur. Om mogelijke schade aan het milieu of de menselijke gezondheid door ongecontroleerde afvalverwijdering te voorkomen, moet u deze artikelen van andere soorten afval scheiden en op een verantwoorde manier recycelen, zodat het duurzame hergebruik van materiaalbronnen wordt bevorderd. Huishoudelijke gebruikers moeten contact opnemen met de winkel waar ze dit product hebben gekocht of met de gemeente waar ze wonen om te vermenen waar en hoe ze deze artikelen milieuvriendelijk kunnen laten recycelen. Zakelijke gebruikers moeten contact opnemen met hun leverancier en de algemene voorwaarden van de koopovereenkomst nalezen. Dit product en zijn elektronische accessoires mogen niet met ander bedrijfsafval voor verwijdering worden gemengd.

[Nederlands]



Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici)

(Applicabile nell'Unione Europea e in altri paesi europei con sistema di raccolta differenziata)

Il marchio riportato sul prodotto, sugli accessori o sulla documentazione indica che il prodotto e i relativi accessori elettronici (quali caricabatterie, cuffia e cavo USB) non devono essere smaltiti con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare il prodotto e i suddetti accessori da altri tipi di rifiuti e di riciclarli in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali. Gli utenti domestici sono invitati a contattare il rivenditore presso il quale è stato acquistato il prodotto o l'ufficio locale preposto per tutte le informazioni relative alla raccolta differenziata e al riciclaggio per questo tipo di materiali. Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto e i relativi accessori elettronici non devono essere smaltiti unitamente ad altri rifiuti commerciali.

[Italiano]



Eliminación correcta de este producto (Residuos de aparatos eléctricos y electrónicos)

(Aplicable en la Unión Europea y en países europeos con sistemas de recogida selectiva de residuos)

La presencia de este símbolo en el producto, accesorios o material informativo que lo acompaña, indica que al finalizar su vida útil ni el producto ni sus accesorios electrónicos (como el cargador, cascos, cable USB) deberán eliminarse junto con otros residuos domésticos. Para evitar los posibles daños al medio ambiente o a la salud humana que representa la eliminación incontrolada de residuos, separar estos productos de otros tipos de residuos y reciclarlos correctamente. De esta forma se promueve la reutilización sostenible de recursos materiales. Los usuarios particulares pueden contactar con el establecimiento donde adquirieron el producto o con las autoridades locales pertinentes para informarse sobre cómo y dónde pueden llevarlo para que sea sometido a un reciclaje ecológico y seguro. Los usuarios comerciales pueden contactar con su proveedor y consultar las condiciones del contrato de compra. Este producto y sus accesorios electrónicos no deben eliminarse junto a otros residuos comerciales.

[Español]



Eliminação Correcta Deste Produto (Resíduos de Equipamentos Eléctricos e Electrónicos)

Esta marca apresentada no produto, nos acessórios ou na literatura – indica que o produto e os seus acessórios electrónicos (por exemplo, o carregador, o auricular, o cabo USB) não deverão ser eliminados juntamente com os resíduos domésticos no final do seu período de vida útil. Para impedir danos ao ambiente ou à saúde humana causados pela eliminação incontrolada de resíduos, deverá separar estes equipamentos de outros tipos de resíduos e reciclá-los de forma responsável, para promover uma reutilização sustentável dos recursos materiais. Os utilizadores domésticos deverão contactar o estabelecimento onde adquiriram este produto ou as entidades oficiais locais para obterem informações sobre onde e de que forma podem entregar estes equipamentos para permitir efectuar uma reciclagem segura em termos ambientais. Os utilizadores profissionais deverão contactar o seu fornecedor e consultar os termos e condições do contrato de compra. Este produto e os seus acessórios electrónicos não deverão ser misturados com outros resíduos comerciais para eliminação.

[Português]



Korrekt avfallshantering av produkten (elektriska och elektroniska produkter)

Denna markering på produkten, tillbehören och i manualen anger att produkten och de elektroniska tillbehören (t.ex. laddare, headset, USB-kabel) inte bör sorteras tillsammans med annat hushållsavfall när de kasseras. Till förebyggande av skada på miljö och hälsa bör dessa föremål hanteras separat för åndamälsenlig återvinning av beständsdelarna. Hushållsanvändare bör kontakta den återförsäljare som säljt produkten eller sin kommun för vidare information om var och hur produkten och tillbehören kan återvinnas på ett miljösäkert sätt. Företagsanvändare bör kontakta leverantören samt verifiera angivna villkor i köpekontrakten. Produkten och de elektroniska tillbehören bör inte hanteras tillsammans med annat kommersiellt avfall.

[Svenska]



Korrekt affaldsbortskaftelse af dette produkt (elektrisk & elektronisk udstyr)

Mærket på dette produkt, på tilbehør eller i den medfølgende dokumentation betyder, at produktet og elektronisk tilbehør hertil (f.eks. oplader, hovedsæt, USB-ledning) ikke må bortskaffes sammen med almindeligt husholdningsaffald efter endt levetiden. For at undgå skadelige miljø- eller sundhedspåvirkninger på grund af ukontrolleret affaldsbortskaftelse skal ovennævnte bortskaffes særskilt fra andet affald og indleveres behørigt til fremme for bæredygtig materialegenbrug. Forbrugere bedes kontakte forhandlerne, hvor de har købt produktet, eller kommunen for oplysning om, hvor og hvordan de kan indlevere ovennævnte med henblik på miljøforsvarlig genbrug. Virksomheder bedes kontakte leverandøren og læse betingelserne og vilkårene i købekontrakten. Dette produkt og elektronisk tilbehør hertil bør ikke bortskaffes sammen med andet erhvervsaffald.

[Dansk]



Korrekt avhending av dette produktet (Avfall fra elektrisk og elektronisk utstyr)

Denne merkningen som vises på produktet, dets tilbehør eller dokumentasjon, indikerer at produktet eller det elektroniske tilbehøret (for eksempel lader, headset, USB-kabel) ikke skal kastes sammen med annet husholdningsavfall ved slutten av levetiden. For å hindre potensiell skade på miljøet eller helseskader grunnet ukontrollert avfallsavhending bør vi om at dette avfallet holdes adskilt fra andre typer avfall og resirkuleres på ansvarlig måte for å fremme bærekraftig gjenbruk av materielle ressurser. Private forbrukere bør kontakte enten forhandleren de kjøpte produktet av, eller lokale myndigheter, for detaljer om hvor og hvordan disse artiklene kan resirkuleres på en miljøvennlig måte. Forretningsbrukere bør kontakte sin leverandør og undersøke vilkårene i kjøpskontrakten. Dette produktet og det elektroniske tilbehøret skal ikke blandes med annet kommersielt avfall som skal kastes.

[Norsk]



Tuotteen turvallinen hävittäminen (elektroniikka ja sähkölaitteet)

Oheinen merkintä tuotteessa, lisävarusteissa tai käyttööhjäeessä merkitsee, että tuotetta tai lisävarusteita toimitettavia sähkölaitteita (esim. laturia, kuulokkeita tai USB kaapelia) ei saa hävittää kotitalousjätteen mukana niiden käytöltän päätyttyä. Virheellisestä jätteenkäsittelystä ympäristölle ja terveydelle aiheutuvien haittojen välttämiseksi tuote ja lisävarusteet on eroteltava muista jätteestä ja kierrätettävä kestävän kehityksen mukaista uusioikäytöä varten. Kotikäyttäjät saatavat lisätietoja tuotteen ja lisävarusteiden turvallisesta kerrittelysestä ottamalla yhteyttä tuotteen myyneeseen jälleenmyyjään tai paikalliseen ympäristöviranomaiseen. Yrityskäyttäjien tulee ottaa yhteyttä tavarantoimittajaan ja selvittää hankintasopimuksen ehdot. Tuotetta tai sen lisävarusteita ei saa hävittää muun kaupallisen jätteen seassa.

[Suomi]



A termék hulladékba helyezésének módszere(WEEE – Elektromos és elektronikus berendezések hulladékai)

Ez a jelzés a terméken, tartozékain vagy dokumentációján arra utal, hogy hasznos élettartama végén a terméket és elektronikus tartozékat (pl. töltőegység, fejhallgató, USB kábel) nem szabad a háztartási hulladékkal együtt kidobni. A szabálytalan hulladékba helyezés által okozott környezet- és egészségkárosodás megelőzése érdekében ezeket a tárgyat különítse el a többi hulladéktól, és felelősségteljesen gondoskodjon az újrahasznosításukról az anyagi erőforrások fenntartható újrafelhasználásának elősegítése érdekében. A háztartási felhasználók a termék forgalmazójától vagy a helyi önkormányzati szervektől kérjenek tanácsot arra vonatkozóan, hogyan lehet el az elhasznált termékeket a környezetvédelmi szempontból biztonságos újrahasznosítás céljából. Az üzleti felhasználók lépték meg a kapcsolatba beszállítójukkal, és vizsgálják meg az adásvételi szerződés feltételeit. Ezt a terméket és tartozékait nem szabad az egyéb közüzleti hulladékkel együtt kezelni.

[Magyar]



Prawidłowe usuwanie produktu (zużyty sprzęt elektryczny i elektroniczny)

To oznaczenie umieszczone na produkcji, akcesoriach lub dokumentacji oznacza, że po zakończeniu eksploatacji nie należy tego produktu ani jego akcesoriów (np. ładowarki, zestawu słuchawkowego, przewodu USB) wyrzucać wraz ze zwykłymi odpadami gospodarstwa domowego. Aby uniknąć szkodliwego wpływu na środowisko naturalne i zdrowie ludzi wskutek niekontrolowanego usuwania odpadów, prosimy o oddzielenie tych przedmiotów od odpadów innego typu oraz o odpowiedzialny recykling i praktykowanie ponownego wykorzystania materiałów. W celu uzyskania informacji na temat miejsca i sposobu bezpiecznego dla środowiska recyklingu tych przedmiotów, użytkownicy w gospodarstwach domowych powinni skontaktować się z punktem sprzedaży detalicznej, w którym dokonali zakupu produktu, lub z organem władz lokalnych. Użytkownicy w firmach powinni skontaktować się ze swoim dostawcą i sprawdzić warunki zakupu. Produktu ani jego akcesoriów nie należy usuwać razem z innymi odpadami komercyjnymi.

[Polski]



Σωστή Απόρριψη αυτού του Προϊόντος (Απόβλητα Ηλεκτρικού & Ηλεκτρονικού Εξοπλισμού)

(Ισχύει για την Ευρωπαϊκή Ένωση και για άλλες ευρωπαϊκές χώρες με χωριστά συστήματα συλλογής) Αυτό το σήμα που εμφανίζεται επάνω στο προϊόν, στα εξαρτήματα του ή στα εγχειρίδια που το συνοδεύουν, υποδεικνύει ότι το προϊόν και τα ηλεκτρονικά του εξαρτήματα (π.χ. φορητής, ακουστική, καλώδιο USB) δεν θα πρέπει να ρίχνονται μαζί με τα υπόλοιπα οικιακά απορρίμματα μετά το τέλος του κύκλου ζωής τους. Προκειμένου να αποφευχθούν ενδεχόμενες βλαβερές συνέπειες στο περιβάλλον ή την υγεία εσωτερικής της ανεξέλεγκτης διάθεσης απορριμμάτων, σας παρακαλούμε να διαχωρίσετε αυτά τα προϊόντα από όλους τύπους απορριμμάτων και να τα ανακυκλώσετε, ώστε να βοηθήσετε στην βιώσιμη επαναχρησιμοποίηση των υλικών πόρων. Οι οικιακοί χρήστες θα πρέπει να έλθουν σε επικοινωνία είτε με το κατάστημα απ' όπου αγόρασαν αυτό το προϊόν, είτε με τις κατ' ιδίους υπηρεσίες, προκειμένου να πληροφορηθούν τις λεπτομέρειες σχετικά με τον τόπο και τον τρόπο με τον οποίο μπορούν να δώσουν αυτά τα προϊόντα για ασφαλή προς το περιβάλλον ανακύκλωση. Οι επιχειρήσεις χρήστες θα πρέπει να έλθουν σε επαφή με τον προμηθευτή τους και να ελέγχουν τους όρους και τις προϋποθέσεις του συμβολαίου αγοράς. Αυτό το προϊόν και τα ηλεκτρονικά του εξαρτήματα δεν θα πρέπει να αναμιγνύονται με άλλα συνηθισμένα απορρίμματα προς το διάθεση.

[Ελληνικά]

Правилно третиране на изделието след края на експлоатационния му живот

(Отпадъци, представляващи електрическо и електронно оборудване) (Важи за държавите на Европейския съюз и други европейски държави със системи за разделно сметосъбиране)



Този знак, поставен върху изделието, негови принадлежности или печатни материали, означава, че продуктът и принадлежностите (например зарядно устройство, слушалки, USB кабел) не бива да се изхвърлят заедно с другите битови отпадъци, когато изтече експлоатационният му живот. Отделяйте тези устройства от другите видови отпадъци и ги предавайте за рециклиране. Спазвайки това правило не излагате на опасност здравето на други хора и предпазвате околната среда от замърсяване, предизвикано от безконтролно изхвърляне на отпадъци. Освен това, подобно отговорно поведение създава възможност за повторно (екологично съобразно) използване на материалните ресурси. Домашните потребители трябва да се свържат с търговеца на дребно, от когото са закупили изделието, или със съответната местна държавна агенция, за да получат подробни инструкции къде и кога могат да занесат тези устройства за рециклиране, безопасно за околната среда. Корпоративните потребители следва да се свържат с доставчика си и да проверят условията на договора за покупка. Това изделие и неговите електронни принадлежности не бива да се сметват с другите отпадъци на търговското предприятие.

[Български]

Správna likvidace výrobku (Elektrický a elektronický odpad)

Toto označení na výrobku, jeho příslušenství nebo dokumentaci znamená, že výrobek a jeho elektronické příslušenství (například nabíječka, náhlovní sadu, USB kabel) je po skončení životnosti zakázáno likvidovat jako běžný komunální odpad. Možným negativním dopadem na životní prostředí nebo lidské zdraví způsobeným nekontrolovanou likvidací zabráníte oddělením zmíněných produktů od ostatních typů odpadu a jejich zdoprovádňou recyklaci za účelem udržitelného využívání druhotných surovin. Uživatelé z řad domácností by si měli od prodejce, u něhož produkt zakoupili, nebo u příslušného městského úřadu vyžádat informace, kde a jak mohou tyto výrobky odevzdat k bezpečné ekologické recyklaci. Podnikoví uživatelé by měli kontaktovat dodavatele a zkontovalovat všechny podmínky kupní smlouvy. Tento výrobek a jeho elektronické příslušenství nesmí být likvidován spolu s ostatním průmyslovým odpadem.

[Čeština]

Správna likvidácia tohto výrobku (Elektrotechnický a elektronický odpad)

(Platné pre Európsku úniu a ostatné európske krajinu so systémom triedeného odpadu)



Toto označenie na výrobku, príslušenstve alebo v sprievodnej brožúre hovorí, že po skončení životnosti by produkt ani jeho elektronické príslušenstvo (napr. nabíjačka, náhlovná súprava, USB kábel) nemali byť likvidované s ostatným domovým odpadom. Prípadnému poškodeniu životného prostredia alebo ľudského zdravia môžete predísť tým, že budete tieto výrobky oddeľovať od ostatného odpadu a vrátiť ich na recykláciu. Používateľia v domácnosťach by pre podrobnejšie informácie, ako ekologicky bezpečne naložiť s týmito výrobkami, mali kontaktovať bud' predajcu, ktorý im ich predal, alebo príslušný úrad v mieste ich bydliska. Priemyselní používateľia by mali kontaktovať svojho dodávateľa a preveriť si podmienky kúpnej zmluvy. Tento výrobok a ani jeho elektronické príslušenstvo by nemali byť likvidované spolu s ostatným priemyselným odpadom.

[Slovensky]

Cum se elimină corect acest produs (Deșeuri de echipamente electrice și electronice)

(Aplicabil în țările Uniunii Europene și în alte țări cu sisteme de colectare selectivă)



Acest simbol de pe produs, accesorii și documentație indică faptul că produsul și accesoriile sale electronice (încărcător, căști, cablu USB) nu trebuie eliminate împreună cu alte deșeuri menajere la finalul duratei lor de utilizare. Date fiind că eliminarea necontrolată a deșeurilor poate dăuna mediului înconjurător sau sănătății umane, vă rugăm să separați aceste articole de alte tipuri de deșeuri și să le reciclezi în mod responsabil, promovând astfel recirculația durabilă a resurselor materiale. Utilizatorii casnici trebuie să-l contacteze pe distribuitorul care le-a vândut produsul sau să se intereseze la autoritățile locale unde și cum pot să ducă aceste articole pentru a fi reciclate în mod ecologic. Utilizatorii comerciali trebuie să-și contacteze furnizorul și să consulte termenii și condițiile din contractul de achiziție. Acest produs și accesoriile sale electronice nu trebuie eliminate împreună cu alte deșeuri comerciale.

[Română]

Izstrādājuma pareiza likvidēšana (Attiecas uz noļietotām elektriskām un elektroniskām ierīcēm)

(Spēkā Eiropas Savienībā un pārējās Eiropas valstīs, kas izmanto atkritumu dalītu savākšanu)



Šis uz izstrādājuma un tā piederumiem vai pievienotajā dokumentācijā izvietotais markējums norāda, ka izstrādājumu un tā elektroniskos piederumus (piem., uzlādes ierīci, austiņas, USB kabeli) pēc ekspluatācijas laika beigām nedrīkst likvidēt kopā ar citiem sadzīves atkritumiem. Lai nepieliktu atkritumu nekontrolētas likvidēšanas radītu varbūtēju kaitējumu videi un cilvēku veselībai, lūdzam minētās ierīces nošķirt no citiem atkritumiem un disciplinēti nodot pienācīgai pārstrādei, tā sekmējot materiālo resursu atkārtotu izmantošanu. Lai uzzinātu, kur un kā minētās ierīces iespējams nodot ekoloģiski drošai pārstrādei, mājsaimniecībām jāsazinās ar izstrādājuma pārdevēju vai savu pašvaldību. Iestādēm un uzņēmumiem jāsazinās ar izstrādājuma piegādātāju un jāiepazīstas ar pirkuma līguma nosacījumiem. Izstrādājumu un tā elektroniskos piederumus nedrīkst nodot likvidēšanai kopā ar citiem iestāžu un uzņēmumu atkritumiem.

[Latviešu]

Tinkamas šio gaminio išmetimas (elektros ir elektroninės įrangos atliekos)

Šis ženklas, pateiktas ant gaminio, jo priedų ar dokumentacijoje, nurodo, kad gaminis ir jo elektroninių priedų (pvz., įkroviklio, ausinių, USB kabelio) negalima išmesti kartu su kitomis būtinėmis atliekomis gamino naudojimo laikui pasibaigus. Kad būtų išvengta galimos nekontroluojamo atliekų išmetimo žalos aplinkai arba žmonių sveikatai ir skatinamas aplinką tausojantis antrinių žaliau panaudojimasis, atskirkite šiuos elementus nuo kitų rūsių atliekų ir atiduokite perdirbtį. Informacijos kur ir kaip pristatyti šiuos elementus saugiai perdirbtis, privatus vartotojai turėtų kreiptis į parduotuvę, kurioje ši gaminis pirkto, arba į vietas valdžios institucijas. Verslo vartotojai turėtų kreiptis į savo tiekėją ir peržiūrėti pirkimo sutarties sąlygas. Tvarkant atliekas, šio gaminio ir jo elektroninių priedų negalima maišyti su kitomis pramoninėmis atliekomis.

[Lietuvių kalba]



Õige viis toote kasutuselt körvaldamiseks (elektriliste ja elektrooniliste seadmete jäätmed)



Selline tähistus tootel või selle tarvikutel või dokumentidel näitab, et toodet ega selle elektroolisi tarvikuid (nt laadija, peakomplekt, USB-kaabel) ei tohi kasutusaja lõppemisel körvaldada koos muude olmejäätmeteega. Selleks et vältida jäätmete kontrollimatu körvaldamisega seotud võimaliku kahju tekitamist keskkonnale või inimeste tervisele ning edendada materiaalsete vahendite säastvat taaskasutust, eraldage need esemed muudest jäätmetest ja suunake need vastutustundlikult taasringlusse. Kodukasutajad saavad teavet nende esemete keskkonnaohutu ringlussevõtu kohta kas toote müüjalt või keskkonnaametist. Firmad peaksid võtma ühendust tarnijaga ning kontrollima ostulepingu tingimusi ja sätteid. Toodet ega selle elektroolisi tarvikuid ei tohi panna muude hävitamiseks mõeldud kaubandusjäätmete hulka.

[Eesti]



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

[English]



Elimination des batteries de ce produit

(Applicable aux pays de l'Union européenne et aux autres pays européens dans lesquels des systèmes de collecte sélective sont mis en place.)

Le symbole sur la batterie, le manuel ou l'emballage indique que les batteries de ce produit ne doivent pas être éliminées en fin de vie avec les autres déchets ménagers. L'indication éventuelle des symboles chimiques Hg, Cd ou Pb signifie que la batterie contient des quantités de mercure, de cadmium ou de plomb supérieures aux niveaux de référence stipulés dans la directive CE 2006/66. Si les batteries ne sont pas correctement éliminées, ces substances peuvent porter préjudice à la santé humaine ou à l'environnement. Afin de protéger les ressources naturelles et d'encourager la réutilisation du matériel, veillez à séparer les batteries des autres types de déchets et à les recycler via votre système local de collecte gratuite des batteries.

[Français]



Korrekte Entsorgung der Batterien dieses Produkts

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Altbatterie-Rücknahmesystem)

Die Kennzeichnung auf der Batterie bzw. auf der dazugehörigen Dokumentation oder Verpackung gibt an, dass die Batterie zu diesem Produkt nach seiner Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden darf. Wenn die Batterie mit den chemischen Symbolen Hg, Cd oder Pb gekennzeichnet ist, liegt der Quecksilber-, Cadmium- oder Blei-Gehalt der Batterie über den in der EG-Richtlinie 2006/66 festgelegten Referenzwerten. Wenn Batterien nicht ordnungsgemäß entsorgt werden, können sie der menschlichen Gesundheit bzw. der Umwelt schaden. Bitte helfen Sie, die natürlichen Ressourcen zu schützen und die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern, indem Sie die Batterien von anderen Abfällen getrennt über Ihr örtliches kostenloses Altbatterie-Rücknahmesystem entsorgen.

[Deutsch]



Correcte behandeling van een gebruikte accu uit dit product

(Van toepassing op de Europese Unie en andere Europese landen met afzonderlijke inzamelingssystemen voor accu's en batterijen.)

Dit merkertje op de accu, handleiding of verpakking geeft aan dat de accu in dit product aan het einde van de levensduur niet samen met ander huishoudelijk afval mag worden weggegooid. De chemische symbolen Hg, Cd of Pb geven aan dat het kwik-, cadmium- of loodgehalte in de accu hoger is dan de referentieniveaus in de Richtlijn 2006/66/EC. Indien de gebruikte accu niet op de juiste wijze wordt behandeld, kunnen deze stoffen schadelijk zijn voor de gezondheid van mensen of het milieu. Ter bescherming van de natuurlijke hulpprullen en ter bevordering van het hergebruik van materialen, verzoeken wij u afgedankte accu's en batterijen te scheiden van andere soorten afval en voor recycling aan te bieden bij het gratis inzamelingssysteem voor accu's en batterijen in uw omgeving.

[Nederlands]



Corretto smaltimento delle batterie del prodotto

(Applicabile nei paesi dell'Unione Europea e in altri paesi europei con sistemi di conferimento differenziato delle batterie.)

Il marchio riportato sulla batteria o sulla sua documentazione o confezione indica che le batterie di questo prodotto non devono essere smaltite con altri rifiuti domestici al termine del ciclo di vita. Dove raffigurati, i simboli chimici Hg, Cd o Pb indicano che la batteria contiene mercurio, cadmio o piombo in quantità superiori ai livelli di riferimento della direttiva UE 2006/66. Se le batterie non vengono smaltite correttamente, queste sostanze possono causare danni alla salute umana o all'ambiente. Per proteggere le risorse naturali e favorire il riutilizzo dei materiali, separare le batterie dagli altri tipi di rifiuti e riciclarle utilizzando il sistema di conferimento gratuito previsto nella propria area di residenza.

[Italiano]



Eliminación correcta de las baterías de este producto

(Aplicable en la Unión Europea y en otros países europeos con sistemas de recogida selectiva de baterías.)

La presencia de esta marca en las baterías, el manual o el paquete del producto indica que cuando haya finalizado la vida útil de las baterías no deberán eliminarse junto con otros residuos domésticos. Los símbolos químicos Hg, Cd o Pb, si aparecen, indican que la batería contiene mercurio, cadmio o plomo en niveles superiores a los valores de referencia admitidos por la Directiva 2006/66 de la Unión Europea. Si las baterías no se desechan convenientemente, estas sustancias podrían provocar lesiones personales o dañar el medioambiente. Para proteger los recursos naturales y promover el reciclaje, separe las baterías de los demás residuos y reciclelas mediante el sistema de recogida gratuito de su localidad.

[Español]



Eliminação correcta das baterias existentes neste produto

(Aplicável na União Europeia e noutros países europeus com sistemas de recolha de baterias separados.)

Esta marca, apresentada na bateria, manual ou embalagem, indica que as baterias existentes neste produto não devem ser eliminadas juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Onde existentes, os símbolos químicos Hg, Cd ou Pb indicam que a bateria contém mercúrio, cádmio ou chumbo acima dos níveis de referência indicados na Directiva CE 2006/66. Se as baterias não forem correctamente eliminadas, estas substâncias poderão ser prejudiciais para a saúde humana ou para o meio ambiente. Para proteger os recursos naturais e promover a reutilização dos materiais, separe as baterias dos outros tipos de resíduos e recicle-as através do sistema gratuito de recolha local de baterias.

[Português]



Ustrezno odstranjevanje baterij v tem izdelku

(Uporabno v EU in ostalih evropskih državah s sistemom ločenega odstranjevanja baterij)

Ta oznaka na bateriji, v navodilih ali na embalaži pomeni, da baterij ob izteku njihove življenjske dobe v tem izdelku ne smeti odstraniti skupaj z ostalimi gospodinjskimi odpadki. Oznake za kemijske elemente Hg, Cd ali Pb pomenijo, da baterija vsebuje živo srebro, kadmij ali svinec v količinah, ki presegajo referenčne nivoje v direktivi EC 2006/66. Če te baterije niso ustrezno odstranjene, te snovi lahko škodujejo zdravju ljudi oziroma okolju. Za zaščito naravnih virov in za vzpostavljanje ponovne uporabe materialov prosimo, ločite te baterije od ostalih odpadkov in jih oddajte na predvidenih lokalnih zbirnih reciklažnih mestih.

[Slovenščina]



Korrekt avfallshantering av batterierna i denna produkt

(Gäller EU och andra europeiska länder med särskild batteriåtervinning.) Denna markering på batteriet, i manualen eller på förpackningen anger att batterierna i denna produkt inte bör slängas tillsammans med annat hushållsavfall. De kemiska symbolerna Hg, Cd eller Pb visar i förekommande fall att batterierna innehåller kvicksilver, cadmium eller bly i mängder överstigande de gränsvärden som anges i EU-direktivet 2006/66. Om batterierna inte slängs på ett ansvarsfullt sätt kan dessa substanser utgöra en fara för hälsa eller miljö. Hjälp till att skydda naturresurser och bidra till materialåtervinning genom att sortera batterierna separat från annat avfall och lämna in dem på en återvinningsstation.

[Svenska]

KKorrekt bortskaffelse af batterierne i dette produkt

(Gælder i EU og andre europæiske lande med særlige retursystemer for batterier).



Mærket på dette batteri, dokumentationen eller emballagen betyder, at batterierne i dette produkt efter endt levetid ikke må bortskaffes sammen med andet husholdningsaffald. Mærkning med de kemiske symboler Hg, Cd eller Pb betyder, at batteriet indeholder kviksølv, cadmium eller bly over grænseværdiene i EU-direktiv 2006/66. Hvis batterierne ikke bortskaffes korrekt, kan disse stoffer være skadelige for menneskers helbred eller for miljøet. For at beskytte naturens ressourcer og fremme genbrug, skal batterier holdes adskilt fra andre typer affald og genanvendes via dit lokale, gratis batterietsystem.

[Dansk]

Korrekt avhending av batterier i dette produkt

(Kommer til anvendelse i Den europeiske union og i andre europeiske land med separate systemer for retur av batterier.)



Denne merkingen på batteriet, håndboken eller emballasjen angir at batteriene i dette produktet ikke skal kastes sammen med annet husholdningsavfall ved slutten av sin levetid. Det det er mørket, angir de kjemiske symbolene Hg, Cd eller Pb at batteriet inneholder kviksølv, cadmium eller bly over referansenværene i EF-direktiv 2006/66. Hvis batteriene ikke avhendes på riktig måte, kan disse stoffene skade menneskers helse eller miljøet. For å beskytte naturressurser og for å fremme gjenbruk av materialer, ber vi deg adskille batterier fra andre typer avfall og resirkulere dem ved å levere dem på din lokale, gratis mottaksstasjon.

[Norsk]

Tuotteen paristojen oikea hävittäminen

(Koskee Euroopan Unionia ja muita Euroopan maita, joissa on erillinen paristojen palautusjärjestelmä.)



Pariston, käyttööppaan tai pakkauskseen tämä merkintä tarkoittaa, että tämän tuotteen sisältämä paristo ei saa hävittää muun kotitalousjätteen seassa, kun niiden käytöökkä on päättynyt. Kemiallinen symboli Hg, Cd tai Pb ilmaisee, että paristo sisältää eloheapea, kadmiumia tai liijyä ylin EU:n direktiivien 2006/66 viiterajoinen. Jos paristoja ei hävitettä oikein, nämä aineet voivat vahingoittaa ihmisten terveyttä tai ympäristötä. Suojaa luonnonvaroja ja edistä materiaalien uusiokäyttöä - erotttele paristolit muista jätteestä ja toimita ne kierrätettäväksi paikalliseen maksuttomaan paristojen palautusjärjestelmään.

[Suomi]

A termékhez tartozó akkumulátorok megfelelő ártalmatlanítása

(Az Európai Unió területén és más, önálló akkumulátorleadó rendszerekkel rendelkező európai országok területén alkalmazandó.)



Az akkumulátoron, a kézikönyvből vagy a csomagolásban szereplő jelzés arra utal, hogy hasznos élettartama végén a terméket nem szabad egyéb háztartási hulladékkel együtt kidobni. Ahol szerepel a jelzés, a Hg, Cd vagy Pb kémiai elemjelölések arra utalnak, hogy az akkumulátor az EK 2006/66. számú irányelvben rögzített referenciaüzemű meghaladó mennyiségi higanyt, kadmiumot vagy ólomtartalmat. Az akkumulátorok nem megfelelő kezelése esetén ezek az anyagok veszélyt jelenthetnek az egészségre vagy a környezetre. A természeti erőforrások megovására és az anyagok újrafelhasználásának ösztönzése érdekében kérjük, különítsen el az akkumulátorokat a többi hulladékktól és vigye vissza a helyi, ingyenes akkumulátorleadó helyre.

[Magyar]

Sposób poprawnego usuwania baterii, w które wyposażony jest niniejszy produkt

(Dotyczy obszaru Unii Europejskiej oraz innych krajów europejskich posiadających oddzielne systemy zwrotu zużytych baterii.)



Niniejsze oznaczenie na baterii, instrukcji obsługi lub opakowaniu oznacza, że po upływie okresu użytkowania baterii, w które wyposażony był dany produkt, nie mogą zostać usunięte wraz z innymi odpadami pochodzący z gospodarstw domowych. Przy zastosowaniu takiego oznaczenia symbole chemiczne (Hg, Cd lub Pb) wskazują, że dana bateria zawiera rtęć, kadm lub ólów w ilości przewyższającej poziomy odniesienia opisane w dyrektywie WE 2006/66. Jeśli baterie nie zostaną poprawnie zutylizowane, substancje te mogą powodować zagrożenie dla zdrowia ludzkiego lub środowiska naturalnego. Aby chronić zasoby naturalne i promować ponowne wykorzystanie materiałów, należy oddzielić baterie od innego typu odpadów i poddawać je utylizacji poprzez lokalny, bezpłatny system zwrotu baterii.

[Polski]

Σωστή απόρριψη των μπαταριών αυτού του προϊόντος

(Ισχύει στην Ευρωπαϊκή Ένωση και άλλες ευρωπαϊκές χώρες με συστήματα ξεχωριστής ανακύκλωσης μπαταριών.)



Αυτή η επισήμανση πάνω στη μπαταρία, το εγχειρίδιο ή τη συσκευασία υποδεικνύει ότι οι μπαταρίες αυτού του προϊόντος δεν πρέπει να απορρίπτονται μαζί με άλλα οικιακά απορρίμματα στο τέλος του κύκλου ζωής τους. Όπου υπάρχουν, τα χημικά σύμβολα Hg, Cd ή Pb υποδεικνύουν ότι η μπαταρία περιέχει υδράργυρο, κadmio ή μολυβδό πάνω από τα επίπεδα αναφοράς της Ευρωπαϊκής Οδηγίας 2006/66. Αν οι μπαταρίες δεν απορριφθούν σωστά, αυτές οι ουσίες ενδέχεται να προκαλέσουν βλαβερές συνέπειες στην ανθρώπινη υγεία ή το περιβάλλον. Παρακαλούμε διαχωρίστε τις μπαταρίες από άλλους τύπους απορριμμάτων και ανακυκλώνετε τις μέσω του τοπικού σας, δωρεάν συστήματος ανακύκλωσης μπαταριών, για την προστασία των φυσικών πόρων και την προώθηση της επαναχρησιμοποίησης υλικών.

[Ελληνικά]

Правилно изхвърляне на батерии в този продукт

(Приложимо в Европейския съюз и други европейски държави със самостоятелни системи за връщане на батерии.)



Това обозначение върху батерията, ръководството или опаковката, показва, че батерийте в този продукт не бива да се изхвърлят с другите битови отпадъци в края на техния полезен живот. Където са маркирани, химическите символи Hg, Cd или Pb показват, че батерията съдържа живак, кадмий или олово над контролните нива в Директива 2006/66 на ЕО. Ако батерийте не се изхвърлят правилно, тези вещества могат да предизвикат увреждане на човешкото здраве или на околната среда. За да предпазите природните ресурси и за да съдействате за многократната употреба на материалните ресурси, моля отделявайте батерийте от другите видове отпадъчни продукти и ги рециклирайте посредством Вашата локална система за безплатно връщане на батерии.

[Български]

Správna likvidácia baterií v tomto výrobku

(Plati v Evropskej unii a dalších evropských zemích s vlastními systémy zpětného odběru baterií.)



Toto značka na baterii, návodu nebo obalu znamená, že baterie v tomto výrobku nesmí být na konci své životnosti likvidovány společně s jiným domovním odpadem. Případně vyznačené symboly chemikálií Hg, Cd nebo Pb upozorňují na to, že baterie obsahuje rtuť, kadmium nebo olovou v množství překračujícím referenční úrovňu stanovené směrnicí ES 2006/66. Pokud baterie nejsou správně zlikvidovány, mohou tyto látky poškodit zdraví osob nebo životní prostředí. Pro ochranu přírodních zdrojů a pro podporu opakováho využívání materiálů oddělte, prosím, baterie od ostatních typů odpadu a nechte je recyklovat prostřednictvím místního bezplatného systému zpětného odběru baterií.

[Čeština]

Správna likvidácia batérií v tomto výrobku

(Aplikovateľne v krajinach Európskej únie a v ostatných európskych krajinach, v ktorých existujú systémy separovaného zberu batérií.)



Toto označenie na batérii, príručke alebo balení hovorí, že batérie v tomto výrobku by sa po skončení ich životnosti nemali likvidovať spolu s ostatným domovým odpadom. V prípade takého označenia chemické symboly Hg, Cd alebo Pb znamenajú, že batérie obsahujú ortuť, kadmium alebo olovou v množstve presahujúcom referenčné hodnoty smernice 2006/66/ES. Pri nevhodnej likvidácii batérií môžu tieto látky poškodiť zdravie alebo životné prostredie. Za účelom ochrany prírodných zdrojov a podpory opäťovného použitia materiálu batérie likvidujte oddelené od iných typov odpadu a recyklujte ich prostredníctvom miestneho systému bezplatného zberu batérií.

[Slovensky]

Dispozitii privind eliminarea corecta a bateriilor acestui produs

(aplicable în Uniunea Europeană și în alte țări europene cu sisteme separate de colectare a bateriilor)



Acest marcat de pe baterie, de pe manualul de utilizare sau de pe ambalaj indică faptul că baterile acestui produs nu trebuie eliminate împreună cu alte deșeuri menajere la sfârșitul ciclului lor de viață. Dacă sunt marcate, simbolurile chimice Hg, Cd sau Pb indică faptul că bateria conține mercur, cadmiu sau plumb peste nivelurile de referință prevăzute în Directiva CE 2006/66. În cazul în care baterile nu sunt eliminate corespunzător, aceste substanțe pot fi dăunătoare pentru sănătatea omului sau pentru mediul. În vederea protejării resurselor naturale și a promovării refolosirii materialelor, vă rugăm să separați baterile de celelalte tipuri de deșeuri și să le reciclați prin intermediul sistemului gratuit de returnare a bateriilor la nivel local.

[Română]

Šī izstrādājuma bateriju pareiza utilizācija

(Piemērojama Eiropas Savienībā un citās Eiropas valstis ar atsevišķam bateriju nodošanas sistēmām.)



Šis markējums uz baterijas, rokasgrāmatā vai uz iepakojuma norāda, ka šī izstrādājuma bateriju pēc tās kalpošanas laika beigām nedrīkst izmest ar ciemī sadzīves atkritumiem. Ja uz baterijas ir atzīmēti ķīmiskie simboli, piem., Hg, Cd vai Pb, tie norāda, ka baterija satur dzīvsudrabu, kadmiju vai svinu, kura satura ir lielāks par EK Direktīvā 2006/66 minētajiem lielumiem. Ja baterijas tiek nepareizi likvidētas, šīs vielas var radīt kaitējumu cilvēku veselībai vai videi. Lai aizsargātu dabas resursus un veicinātu materiālu otreižēju izmantošanu, šķirojiet baterijas atsevišķi no ciemī atkritumu veidiem un nododiet tās otreižējai pārstrādei, izmantojot bateriju vietējo bezmaksas nodošanas sistēmu.

[Lietuviai]

Tinkamas šio produkto akumulatorių tvarkymas

(Taikoma Europos Sajungoje ir kitose Europos šalyse, kuriose galioja atskirios akumulatorių grąžinimo sistemos.)



Šis ženklas yra pateiktiamas ant akumulatoriaus, jo dokumentacijoje ar ant pakuočės nurodo, kad šio produkto akumulatorių, pasibaigus jų tarnavimo laikui, negalima išmesti kartu su kitomis būtinėmis atliekomis. Cheminiai simboliai Hg, Cd arba Pb rodo, kad akumulatorius yra gysvidabrio, kadmij ar švino, kurio kiekis viršija normą, nurodytą ES direktyvoje 2006/66. Jei akumulatoriai nebūs tinkamai išmesti, šios medžiagos gali sukelti žalos žmonių sveikatai ar aplinkai. Tam, kad būtų apsaugoti gamtos ištekliai ir skatinamas antrinių žaliavų panaudojimas, pašome atskirti akumulatorių nuo kitų rūšių atliekų ir atiduoti perdirbtį vietinėje akumulatorių grąžinimo sistemai.

[Lietuviai]

Õige viis toote akude kasutusest kõrvaldamiseks

(Rakendatakse Euroopa Liidus ja teistes Euroopa riikides, kus on kasutusel spetsiaalsed akude kogumissüsteemid).



Selline tähistus akul, dokumentidel või pakendil näitab, et toote akusid ei tohi kasutusaja lõppemisel kõrvaldada koos muude olmejäätmeteega. Keemilised elementid Hg, Cd, või Pb näitavad, et aku elavhöbeda, kadmiumi või plii sisaldus on EÜ direktiivi 2006/66 sihtasemest suurem. Kui akusid ei kõrvaldata õigel viisil, võib nende sisu põhjustada tervise-või keskkonnakahjustusi. Selleks, et kaitsta loodusvarasid ja edendada materjalide taaskasutamist, eraldage akud muudest jäätmetest ja suunake need taaskasutusse kohaliku, tasuteenusena pakutava akude tagastussüsteemi abil.

[Eesti]